上海康阔光智能技术有限公司

Comcore Optical Intelligence Technologies Co., Ltd.

COMCORE

2019

Product Catalog

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

Comcore Optical Intelligence Technologies Co., Ltd.
No.1279, Huadong Road, Pudong District, Shanghai City, P. R. China
Post Code: 201209

Unified social credit code / Organization code: 91310115MA1HA7294Y

has established and applies
a Quality Management System for

Design, Development, Manufacture and Sales of Optical Communication Equipment, Fiber Optical Passive Devices and Fiber Optic Sensors.

An audit was performed, Report No. **70013692**.
Proof has been furnished that the requirements
according to

ISO 9001:2015

are fulfilled.

The certificate is valid in conjunction
with the main-certificate from **2018-10-01** until **2020-08-02**.

The certified organization shall undergo and pass
the regular surveillance audit to maintain the validity of this certificate.

Certificate Registration No.: **12 100 14700/03 TMS**.

Information about this certificate can be inquired at the official website
of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).

Product Compliance Management
Munich, 2018-10-25

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstrasse 65 • 80339 München • Germany
www.tuev-sued.de/certificate-validity-check

TÜV®

Comcore Optical Intelligence Technologies Co., Ltd.

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Shanghai 201209, China

Email: sales@comcore.com

URL: www.comcore.com

Company Profile

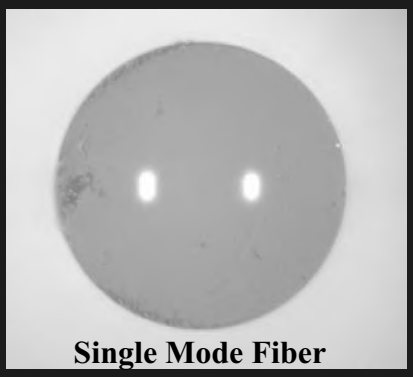
Comcore Technologies located in Shanghai has been founded by Dr. Huang Yong who is a well-known expert in fiber optic technologies. The company mainly provides several different product families, including ultra-high reliability fused fiber devices to be used in high-end optical instrumentation, optical communication systems, data centers, optical sensing systems and other areas of scientific and technological development, also including high performance fiber optic current sensors (FOCS) to be used in smart electrical power grids, nuclear power systems, metallurgy, high-speed trains and other fields. More important, the company developed the current sensing fiber so-called special high-birefringence elliptical-polarization maintaining fiber using their unique intellectual property rights to ensure the long-term stability of FOCS. In addition, Comcore invented a universal PM fiber splicer by using self-owned intellectual property, and the success of developing this splicer broke the decades-long monopoly of imported splicers in the nation. This PM fiber splicer became the first choice in the industry as its high cost performance, and had been used in many universities, research institutes and manufacturing enterprises.

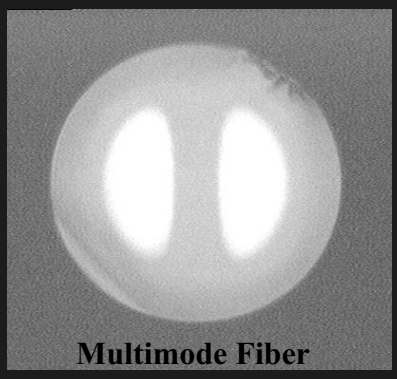
Comcore Technologies will serve the national strategy by taking science and technology innovation as the driving force, concentrating on the industry, striving and winning by quality, open and cooperative and common development as the business philosophy.

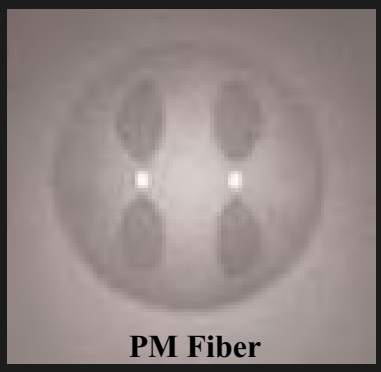
Comcore Technologies' Platform

Superfusion™ Process

- The Cross-Sectional Shapes in Fused Region







- Product Features

  - Enhance the sturdiness of coupling region due to unitary cross section.
  - Insensitive optical characteristics of devices to the environment variation.
  - Minimize the twisted effect by cylindrical structure of coupling region.
  - Minimize the possibility of device degradation and ultimate failure due to moisture enters these micro-cracks and proliferates them by eliminating micro-cracks on the surface of fibers in both coupling and non-coupling region.
  - Reduce the polarization dependent loss for all of related products.

- Related Unique Products in the World

  - Ultra-low insertion loss (<0.05dB) 980/1550nm dissimilar fiber WDMs
  - PDL-free (<0.01dB) broadband splitters / couplers (mixers)
  - Ultra-low loss multimode couplers / splitters from 850nm to 1600nm
  - 1x3 (3x3) polarization-maintaining fiber splitters / couplers (Mixers)

Product Contents

Fused Polarization-Maintaining Fiber Products

Spun Fiber Products

Fused Fiber Products for Submarine Applications

Fused Single Mode Fiber Wavelength Division Multiplexer

Fused Wavelength Combiners

1x2 (2x2) Single Mode Fiber Splitter and Star/Tree Splitter Modules

1xM (NxM) Monolithically-Fused Single Mode Fiber Splitter

1xN (NxN) Monolithically-Fused Multi-Mode Fiber Splitter

Pump Combiners & Pump and Signal Combiners

High Temperature Fused Fiber Products

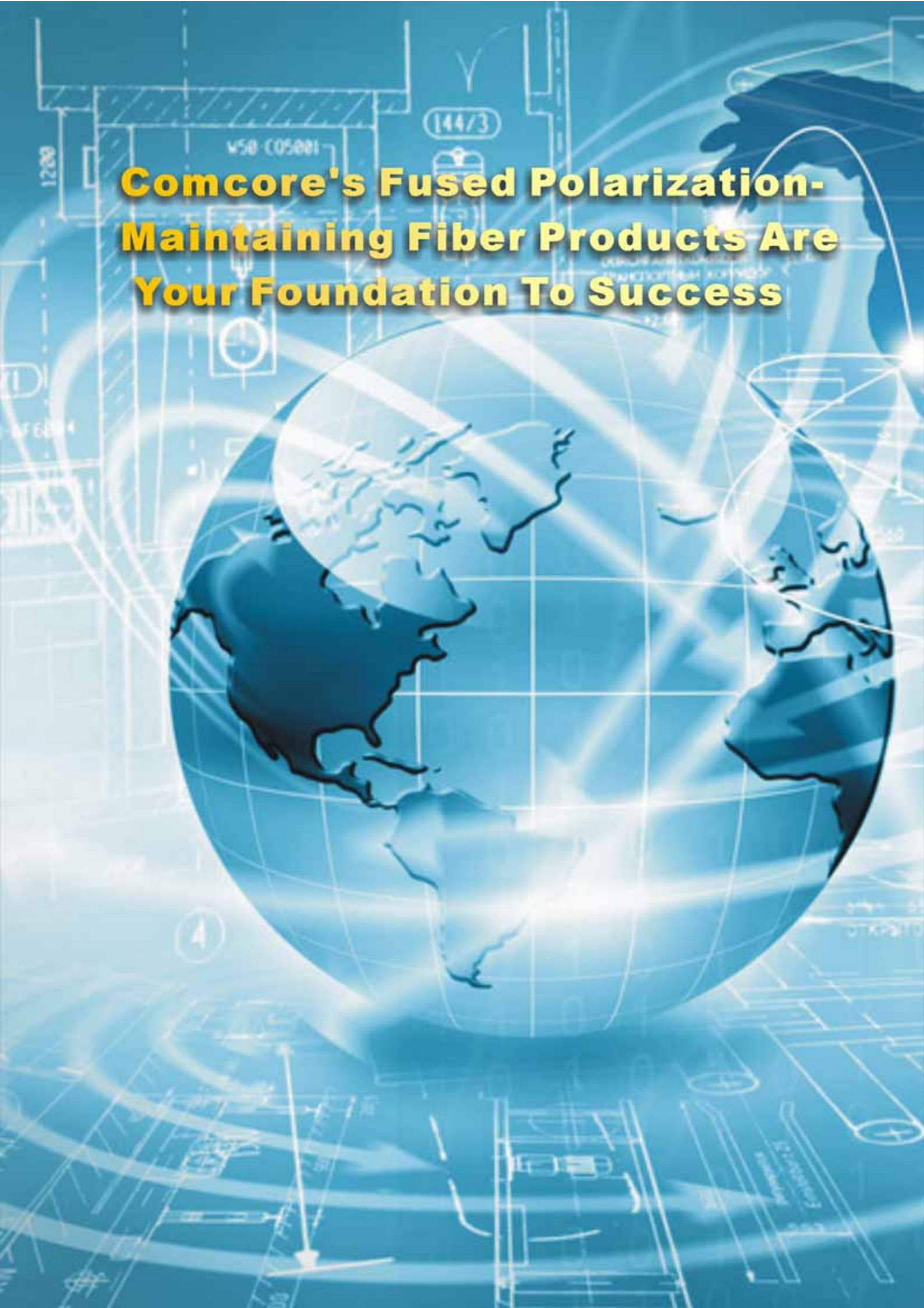
High Power Components

Micro-Optical Components

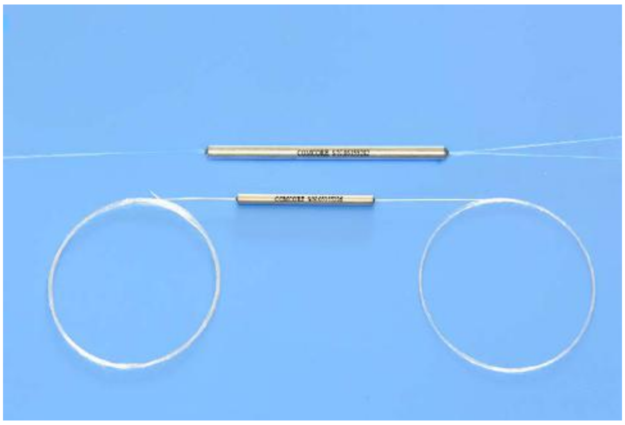
Special Products

Fused Plastic Fiber Splitters

Appendix


Comcore's Fused Polarization-
Maintaining Fiber Products Are
Your Foundation To Success

1x2(2x2) Compact Fused Hybrid PM Fiber Tap



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifiers
- Power Monitoring
- Telecomm Systems
- Testing Equipment

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	780, 830, 980, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.6	0.8	0.3	0.5
Excess Loss	Max.	dB	0.8	1.0	0.5	0.7
PER for Through Port	Min.	dB	20	17	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S4=Ø3x35mm / S5= Ø3x40mm / S6=Ø3x54mm			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99.5/0.5	±0.2	±0.3
99/1	±0.4	±0.5
98/2	±0.7	±1.0
95/5	±1.8	±2.1
90/10	±2.5	±3.0
80/20	±3.0	±4.0

Fiber Type	PM Fiber Port	SM Fiber Port
Type 1	Panda Fiber	G652 Fiber or Equivalent Fiber
Type 2	Panda Fiber	HI1060 Fiber or Equivalent Fiber
Type 3	Panda Fiber	HI780C Fiber or Equivalent Fiber
Type 4	Large Mode Area Panda Fiber	HI1060 Fiber or Equivalent Fiber

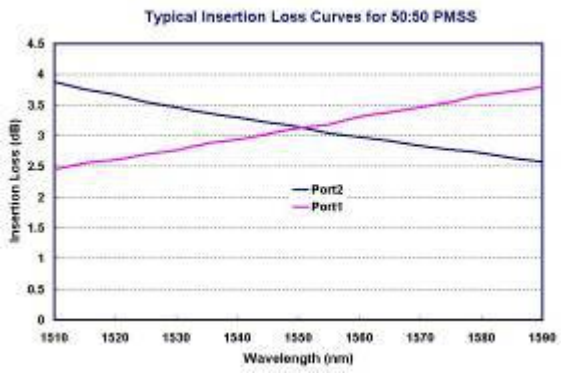
Ordering Information

P M C T

Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Fiber Length	Connector
4=1550nm 5=1480nm 7=1310nm 8=1064nm 9=980nm L=780nm K=830nm P=2000nm S=Specify	1=1x2 2=2x2	05=99.5:0.5 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20	P=Premium A=A grade	3=S4 with 250µm bare fiber pigtail 4=S5 with 0.9mm loose tube 5=S6 with 0.9mm loose tube	1=Type 1 2=Type 2 3=Type 3 4=Type 4	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

1x2(2x2) Fused Hybrid PM Fiber Standard Tap



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifiers
- Power Monitoring
- Telecomm Systems
- Testing Equipment

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	780, 830, 980,1030,1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.4	0.6	0.2	0.3
Excess Loss	Max.	dB	0.6	0.8	0.4	0.6
PER for Through Port	Min.	dB	20	17	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S5= Ø3x40 / S6=Ø3x54 / S8=Ø3x76 / M1=9x16x90			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99.5/0.5	±0.2	±0.3
99/1	±0.4	±0.5
98/2	±0.6	±0.8
95/5	±1.5	±1.8
90/10	±2.0	±2.5
80/20	±2.5	±3.0

Fiber Type	PM Fiber Port	SM Fiber Port
Type 1	Panda Fiber	G652 Fiber or Equivalent Fiber
Type 2	Panda Fiber	HI1060 Fiber or Equivalent Fiber
Type 3	Panda Fiber	HI780C Fiber or Equivalent Fiber
Type 4	Large Mode Area Panda Fiber	HI1060 Fiber or Equivalent Fiber

Ordering Information

P	M	S	T										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm L=780nm K=830nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20		Grade P=Premium A=A grade	Package 4=S5 with 250µm bare fiber pigtail 5=S6 with 250µm bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type 1=Type 1 2=Type 2 3=Type 3 4=Type 4	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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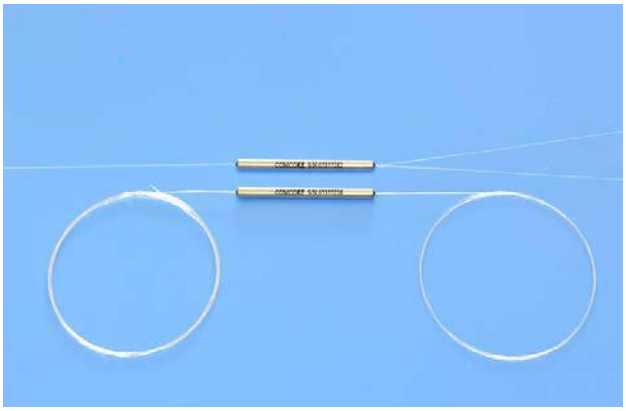
1x2(2x2) Polarization-Insensitive Fused Hybrid PM Fiber Tap



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifiers
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	780, 830, 980,1030,1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.5	0.7	0.4	0.6
Excess Loss	Max.	dB	0.7	0.9	0.6	0.8
Polarization Dependent Loss	Max.	dB	0.1	0.2	0.1	0.2
PER for Through Port	Min.	dB	20	18	20	18
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S5= Ø3x40 / S6=Ø3x54 / S8=Ø3x76			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99.5/0.5	±0.2	±0.3
99/1	±0.4	±0.5
98/2	±0.6	±0.8
95/5	±1.5	±1.8
90/10	±2.0	±2.5
80/20	±2.5	±3.0

Fiber Type	PM Fiber Port	SM Fiber Port
Type 1	Panda Fiber	G652 Fiber or Equivalent Fiber
Type 2	Panda Fiber	HI1060 Fiber or Equivalent Fiber
Type 3	Panda Fiber	HI780C Fiber or Equivalent Fiber
Type 4	Large Mode Area Panda Fiber	HI1060 Fiber or Equivalent Fiber

Ordering Information

P	I	B	T										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm L=780nm K=830nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20		Grade P=Premium A=A grade	Package 4=S5 with 250μm bare fiber pigtail 5=S6 with 250μm bare fiber pigtail 7=S8 with 0.9mm loose tube	Fiber Type 1=Type 1 2=Type 2 3=Type 3 4=Type 4	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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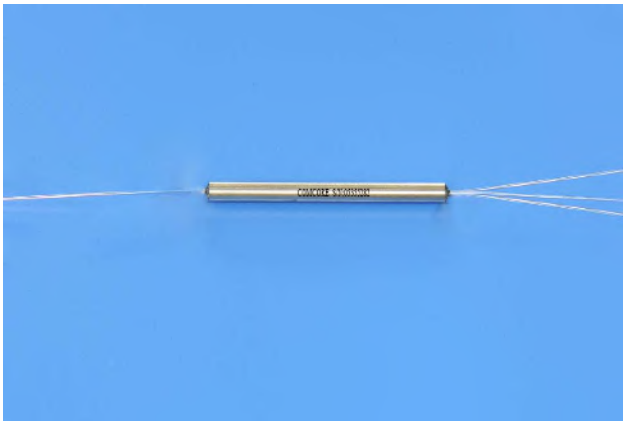
1x3 Fused Hybrid PM Fiber Standard Tap



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Telecomm System
- Testing Equipment

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x3			
Central Wavelength		nm	780, 830, 980, 1030, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.5	0.7	0.3	0.4
Excess Loss	Max.	dB	0.7	0.9	0.5	0.8
PER for Through Port	Min.	dB	18	15	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6=Ø3x54 / S12=Ø4x70 / M2=7.5x18x90			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)			
	Premium		A grade	
	Main Port	Tap Port	Main Port	Tap Port
0.5/99/0.5	±0.4	±0.2	±0.5	±0.3
1/98/1	±0.6	±0.4	±0.8	±0.5
2.5/95/2.5	±1.5	±0.8	±1.8	±1.0
5/90/5	±2.0	±1.2	±2.5	±1.3
10/80/10	±2.5	±1.5	±3.0	±1.8

Fiber Type	Common Port	Through Port	Coupling Port 1	Coupling Port 2
Type 1	Panda Fiber	Panda Fiber	SMF-28e Fiber or Equivalent Fiber	G652 Fiber or Equivalent Fiber
Type 2	Panda Fiber	Panda Fiber	HI1060 Fiber or Equivalent Fiber	HI1060 Fiber or Equivalent Fiber
Type 3	Panda Fiber	Panda Fiber	HI780C Fiber or Equivalent Fiber	HI780C Fiber or Equivalent Fiber
Type 4	Panda Fiber	Panda Fiber	SMF-28e Fiber or Equivalent Fiber	Panda Fiber
Type 5	Panda Fiber	Panda Fiber	HI1060 Fiber or Equivalent Fiber	Panda Fiber
Type 6	Panda Fiber	Panda Fiber	HI780C Fiber or Equivalent Fiber	Panda Fiber

Ordering Information

P	M	S	T										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm L=780nm K=830nm P=2000nm S=Specify	Structure 3=1x3	Splitting Ratio 99=0.5:99:0.5 98=1:98:1 95=2.5:95:2.5 90=5:90:5 80=10:80:10	Grade P=Premium A=A grade	Package 5=S6 with 250µm bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	Fiber Type 1=Type 1 2=Type 2 3=Type 3 4=Type 4 5=Type 5 6=Type 6	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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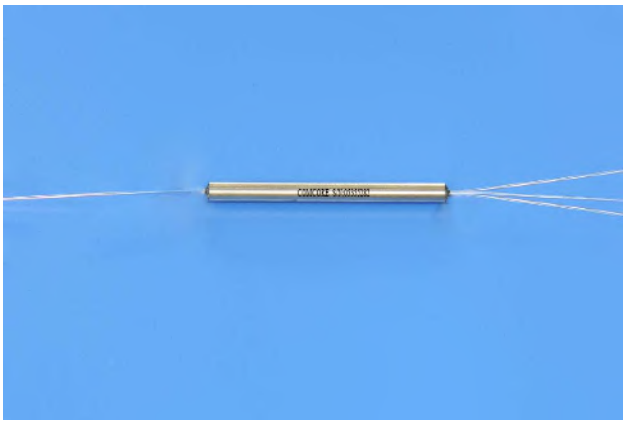
1x3 Polarization-Insensitive Fused Hybrid PM Fiber Tap



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifiers
- Power Monitoring
- Telecomm System
- Testing Equipment

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x3			
Central Wavelength		nm	780, 830, 980, 1030, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.5	0.7	0.4	0.6
Excess Loss	Max.	dB	0.7	0.9	0.6	0.8
Polarization Dependent Loss	Max.	dB	0.1	0.2	0.1	0.2
PER for Through Port	Min.	dB	18	15	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6=Ø3x54 / S12=Ø4x70 / M2=7.5x18x90			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)			
	Premium		A grade	
	Main Port	Tap Port	Main Port	Tap Port
0.5/99/0.5	±0.4	±0.2	±0.5	±0.3
1/98/1	±0.6	±0.4	±0.8	±0.5
2.5/95/2.5	±1.5	±0.8	±1.8	±1.0
5/90/5	±2.0	±1.2	±2.5	±1.3
10/80/10	±2.5	±1.5	±3.0	±1.8

Fiber Type	Common Port	Through Port	Coupling Port 1	Coupling Port 2
Type 1	Panda Fiber	Panda Fiber	G652 Fiber or Equivalent Fiber	G652 Fiber or Equivalent Fiber
Type 2	Panda Fiber	Panda Fiber	HI1060 Fiber or Equivalent Fiber	HI1060 Fiber or Equivalent Fiber
Type 3	Panda Fiber	Panda Fiber	HI780C Fiber or Equivalent Fiber	HI780C Fiber or Equivalent Fiber
Type 4	Panda Fiber	Panda Fiber	G652 Fiber or Equivalent Fiber	Panda Fiber
Type 5	Panda Fiber	Panda Fiber	HI1060 Fiber or Equivalent Fiber	Panda Fiber
Type 6	Panda Fiber	Panda Fiber	HI780C Fiber or Equivalent Fiber	Panda Fiber

Ordering Information

P	I	B	T										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm L=780nm K=830nm P=2000nm	Structure 3=1x3	Splitting Ratio 99=0.5:99:0.5 98=1:98:1 95=2.5:95:2.5 90=5:90:5 80=10:80:10		Grade P=Premium A=A grade	Package 5=S6 with 250μm bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	Fiber Type 1=Type 1 2=Type 2 3=Type 3 4=Type 4 5=Type 5 6=Type 6	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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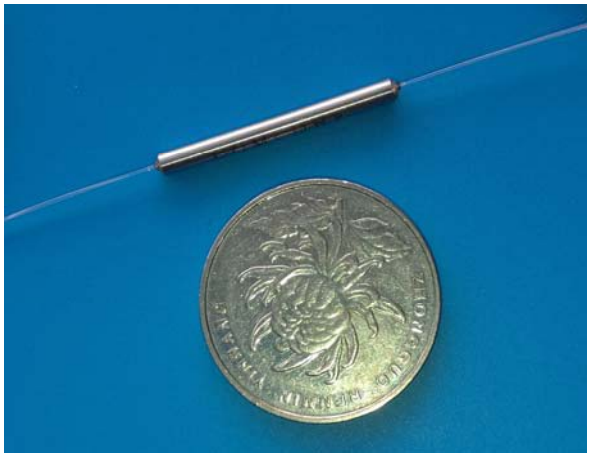
1x2(2x2) 80μm Fused PM Fiber Splitter



Product Features

- Compact Size
- Low Excess Loss
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Ultra-P	Premium	A grade	Ultra-P	Premium	A grade
Port Configuration			1x2 or 2x2					
Central Wavelength		nm	780, 830, 850, 980, 1030, 1064			1310, 1480, 1550, 2000		
Bandwidth		nm	±20					
Excess Loss	Typ.	dB	0.4	0.6	0.8	0.2	0.4	0.7
Excess Loss	Max.	dB	0.6	0.8	1.0	0.35	0.6	0.9
Polarization Extinction Ratio	Min.	dB	18	17	15	20	18	16
Operating power	Max.	W	2					
Operating Temperature		°C	-40 to +85					
Storage Temperature		°C	-50 to +85					
Package Type		mm	S2=Ø3x25.4/ S3=Ø3x30					

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)		
	Ultra-Premium	Premium	A grade
99/1	±0.3	±0.5	±0.7
98/2	±0.6	±0.8	±1.0
95/5	±1.2	±1.5	±1.7
90/10	±2.0	±2.2	±2.8
80/20	±2.2	±2.5	±3.3
70/30	±2.7	±3.0	±4.5
60/40	±3.5	±4.0	±6.0
50/50	±4.0	±5.0	±8.0

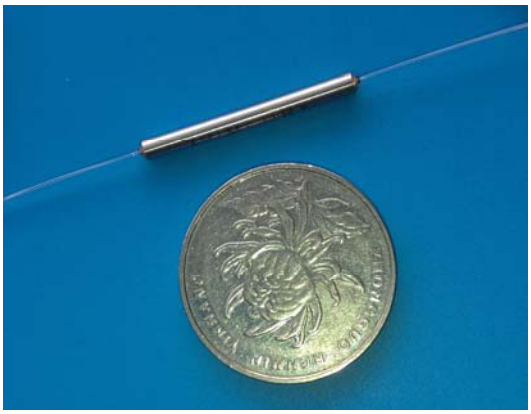
Ordering Information

P	M	C	S										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm L=780nm K=830nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50	Grade U=Ultra- P P=Premium A=A grade	Package 1=S2 with 165μm bare fiber pigtail 2=S3 with 165μm bare fiber pigtail	Fiber Type F=80/165μm bare Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Mini Fused PM Fiber Splitter (Mixer)



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Fiber Gyroscope
- Power Monitoring
- Coherent Communication

Specifications

Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Central Wavelength		nm	1310,1550	
Bandwidth		nm	±20	
Excess Loss	Typ.	dB	0.3	0.4
Excess Loss	Max.	dB	0.5	0.6
Polarization Extinction Ratio（23°C）	Min.	dB	20	18
Polarization Extinction Ratio（-40~85°C）	Min.	dB	17	16
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S1=Ø2.4x25	

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.7
98/2	±0.8	±1.0
95/5	±1.0	±1.5
90/10	±1.5	±2.0
80/20	±2.0	±2.5
70/30	±2.5	±3.0
60/40	±2.8	±3.5
50/50	±3.0	±4.0

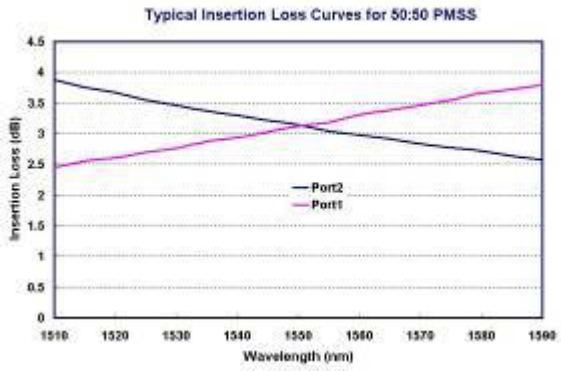
Ordering Information

P	M	C	S										
				Wavelength 4=1550nm 7=1310nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 0=S1 with 250μm bare fiber pigtail	Fiber Type E=Panda Fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1.Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) 400μm Fused PM Fiber Standard Splitter (Mixer)



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Central Wavelength		nm	1480, 1550, 2000	
Bandwidth		nm	±20	
Excess Loss	Typ.	dB	0.2	0.3
Excess Loss	Max.	dB	0.4	0.6
Polarization Extinction Ratio	Min.	dB	20	17
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54	

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.6
98/2	±0.8	±1.0
95/5	±1.5	±1.7
90/10	±2.2	±2.4
80/20	±2.5	±3.0
70/30	±3.0	±3.7
60/40	±4.0	±4.8
50/50	±5.0	±6.0

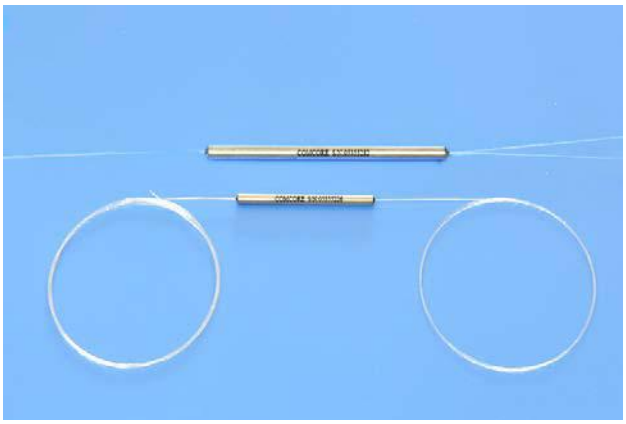
Ordering Information

P	M	S	S									
				Wavelength 4=1550nm 5=1480nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50	Grade P=Premium A=A grade	Package 5=S6 with 400μm bare fiber pigtail	Fiber Type G=400μm Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Compact Fused PM Fiber Splitter (Mixer)



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	780, 830, 980, 1030,1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.6	0.8	0.4	0.6
Excess Loss	Max.	dB	0.8	1.0	0.6	0.8
Polarization Extinction Ratio	Min.	dB	18	15	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S2=Ø3x25.4 / S4=Ø3x35 / S5= Ø3x40 / S6=Ø3x54			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.6
98/2	±0.8	±1.0
95/5	±1.5	±1.7
90/10	±2.2	±2.4
80/20	±2.5	±3.0
70/30	±3.0	±3.7
60/40	±4.0	±4.8
50/50	±5.0	±6.0

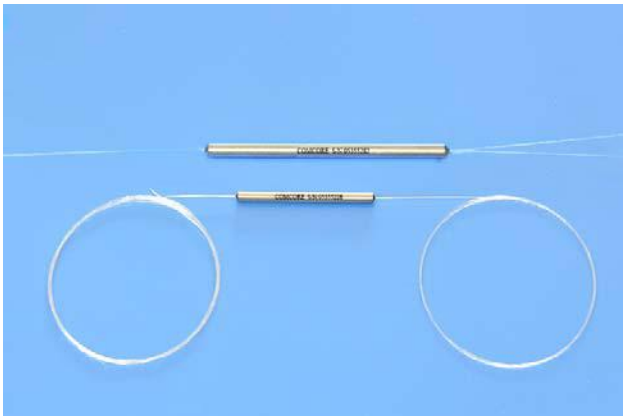
Ordering Information

P	M	C	S										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm L=780nm K=830nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 1=S2 with 250μm bare fiber pigtail 3=S4 with 250μm bare fiber pigtail 4=S5 with 0.9mm loose tube 5=S6 with 0.9mm loose tube	Fiber Type E=Panda fiber L=Large mode area panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Compact Polarization-Insensitive Fused PM Fiber Splitter



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Operating on both Fast and Slow Axis
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	780, 830, 980, 1030, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.6	0.8	0.4	0.6
Excess Loss	Max.	dB	0.8	1.0	0.6	0.8
Polarization Extinction Ratio	Min.	dB	18	15	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S4=Ø3x35 / S5=Ø3x40 / S6=Ø3x54			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.6
98/2	±0.8	±1.0
95/5	±1.5	±1.7
90/10	±2.2	±2.4
80/20	±2.5	±3.0
70/30	±3.0	±3.7
60/40	±4.0	±4.8
50/50	±5.0	±6.0

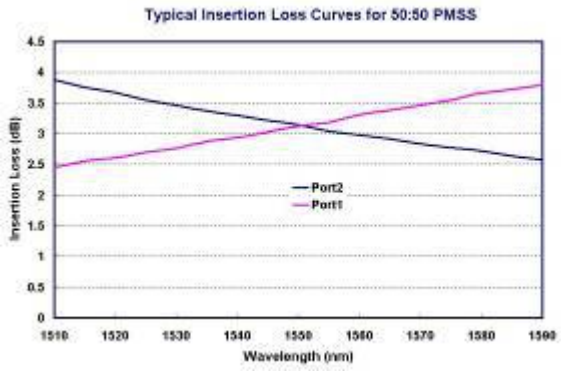
Ordering Information

P	I	C	S										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm L=780nm K=830nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 3=S4 with 250μm bare fiber pigtail 4=S5 with 0.9mm loose tube 5=S6 with 0.9mm loose tube	Fiber Type E=Panda fiber L=Large mode area panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Fused PM Fiber Standard Splitter (Mixer)



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2					
Central Wavelength		nm	450~685		780~1064		1310, 1480,1550, 2000	
Bandwidth		nm	±20					
Excess Loss	Typ.	dB	1.0	1.2	0.6	0.8	0.2	0.3
Excess Loss	Max.	dB	1.4	1.6	0.8	1.0	0.4	0.6
Polarization Extinction Ratio	Min.	dB	15	12	18	15	20	17
Operating power	Max.	W	2					
Operating Temperature		°C	-40 to +85					
Storage Temperature		°C	-50 to +85					
Package Type		mm	S5=Ø3x40 / S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90					

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.6
98/2	±0.8	±1.0
95/5	±1.5	±1.7
90/10	±2.2	±2.4
80/20	±2.5	±3.0
70/30	±3.0	±3.7
60/40	±4.0	±4.8
50/50	±5.0	±6.0

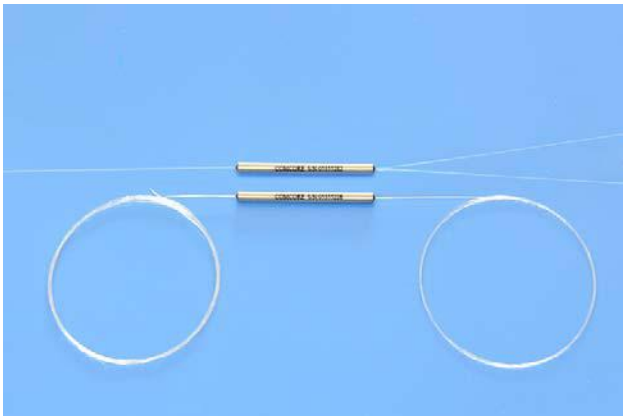
Ordering Information

P	M	S	S										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm K=830nm L=780nm I=685nm E=650nm B=633nm C=532nm D=450nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50	Grade P=Premium A=A grade	Package 4=S5 with 250µm bare fiber pigtail 5=S6 with 250µm bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type E=Panda fiber L=Large mode area panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Polarization-Insensitive Fused PM Fiber Splitter (Mixer)



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	780, 830, 850, 980, 1030,1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.6	0.8	0.4	0.6
Excess Loss	Max.	dB	0.8	1.0	0.6	0.8
Polarization Dependent Loss	Max.	dB	0.1	0.2	0.1	0.2
Polarization Extinction Ratio	Min.	dB	18	15	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S5=Ø3x40 / S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.6
98/2	±0.8	±1.0
95/5	±1.5	±1.7
90/10	±2.2	±2.4
80/20	±2.5	±3.0
70/30	±3.0	±3.7
60/40	±4.0	±5.0
50/50	±5.0	±7.0

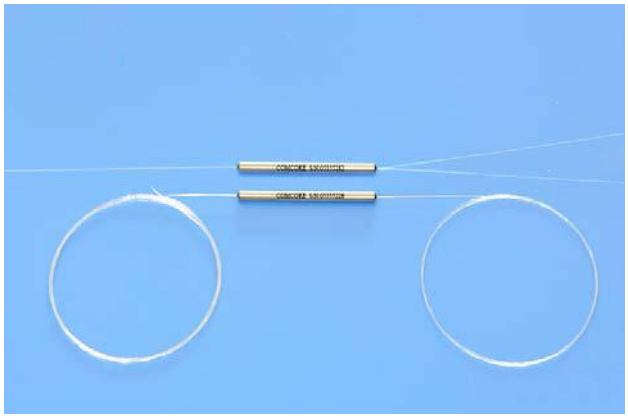
Ordering Information

P	I	N	S											
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm K=830nm L=780nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 4=S5 with 250µm bare fiber pigtail 5=S6 with 250µm bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with	Fiber Type E=Panda fiber L=Large mode area panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 Polarization-Insensitive Fused PM Fiber Broadband Splitter



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2	
Central Wavelength		nm	1310, 1480, 1550, 2000	
Bandwidth		nm	±40	
Excess Loss	Typ.	dB	0.4	0.6
Excess Loss	Max.	dB	0.6	0.8
Polarization Dependent Loss	Max.	dB	0.1	0.2
Polarization Extinction Ratio	Min.	dB	20	17
Splitting Ratio Tolerance	Max.	%	±5	±7
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90	

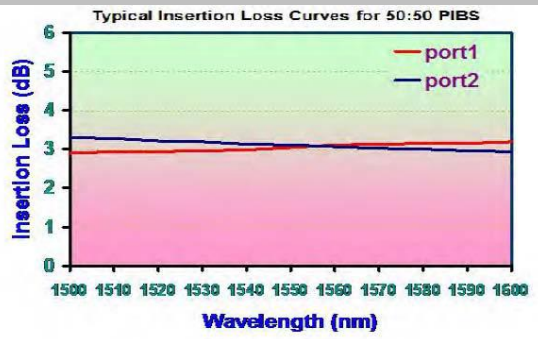
Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
70/30	±3.0	±4.7
60/40	±4.0	±5.8

Typical Spectrum



Ordering Information

P	I	B	S			1									

Wavelength
4=1550nm
5=1480nm
7=1310nm
P=2000nm
S=Specify

Structure
1=1x2

Splitting Ratio
50=50:50
60=60:40
70=70:30

Grade
P=Premium
A=A grade

Package
5=S6 with 250μm bare fiber pigtail
7=S8 with 0.9mm loose tube
D=M1 with 3mm cable

Fiber Type
E=Panda fiber

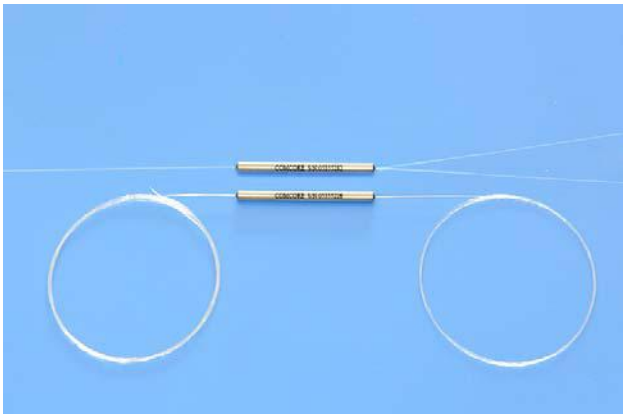
Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
2=FC/SPC
3=FC/APC
7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Polarization-Insensitive Dual-Window PM Fiber Splitter



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Optical Sensor
- Coherent Optical System
- Optical Testing Equipment

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Central Wavelength		nm	1310±20 & 1550±20	
Excess Loss	Typ.	dB	0.4	0.6
Excess Loss	Max.	dB	0.6	0.8
Polarization Dependent Loss	Max.	dB	0.1	0.2
Polarization Extinction Ratio	Min.	dB	20	17
Splitting Ratio Tolerance	Max.	%	±5	±7
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90	

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.6
98/2	±0.8	±1.0
95/5	±1.5	±1.7
90/10	±2.2	±2.4
80/20	±2.5	±3.0
70/30	±3.0	±3.7
60/40	±4.0	±5.0
50/50	±5.0	±7.0

Ordering Information

P	I	D	S										
				Wavelength 0=1310&1550	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 5=S6 with 250μm bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Ultra-Low Ratio Fused PM Fiber Splitter (Mixer)

Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	780, 830, 980, 1030, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Insertion Loss for Through Port	Max.	dB	0.2	0.3	0.1	0.15
Insertion Loss for 0.1% Tap Port		dB	30±3	30±3	30±3	30±3
Insertion Loss for 0.01% Tap Port		dB	40±4	40±4	40±4	40±4
Insertion Loss for 0.001% Tap Port		dB	50±5	50±5	50±5	50±5
Polarization Extinction Ratio (Through Port)		dB	18	15	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S5=Ø3x40 / S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90			

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

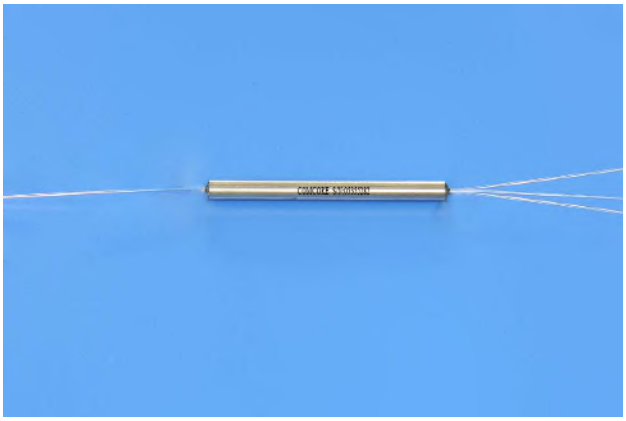
Ordering Information

P	L	S	T								
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm K=830nm L=780nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 01=0.1% 02=0.01% 03=0.001%	Grade P=Premium A=A grade	Package 4=S5 with 250um bare fiber pigtail 5=S6 with 250um bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with	Fiber Type E=Panda fiber L=Large mode area panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x3 Fused PM Fiber Standard Splitter



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Optical Sensor
- Coherent Optical System
- Optical Testing Equipment

Specifications			Splitting Ratio:		33:33:33	
Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x3			
Central Wavelength		nm	780, 830, 850, 980, 1030, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.8	1.0	0.3	0.5
Excess Loss	Max.	dB	1.0	1.2	0.6	0.8
Polarization Extinction Ratio	Min.	dB	16	14	18	16
Splitting Ratio Tolerance	Max.	%	±6	±8	±6	±8
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6=Ø3x54 / S12=Ø4x70 / M2=7.5x18x90			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)			
	Premium		A-Grade	
	Through Port	Coupling Port	Through Port	Coupling Port
5:90:5	±2.5	±1.5	±3.0	±1.8
10:80:10	±2.8	±1.6	±3.2	±2.0
15:70:15	±3.0	±1.8	±3.5	±2.4
20:60:20	±3.3	±2.0	±3.7	±2.5
25:50:25	±3.5	±2.4	±4.0	±3.0
30:40:30	±4.0	±3.0	±5.0	±4.0
33:33:33	±6.0	±6.0	±8.0	±8.0
35:30:35	±4.0	±5.0	±5.0	±6.0
40:20:40	±5.0	±6.0	±6.0	±7.0

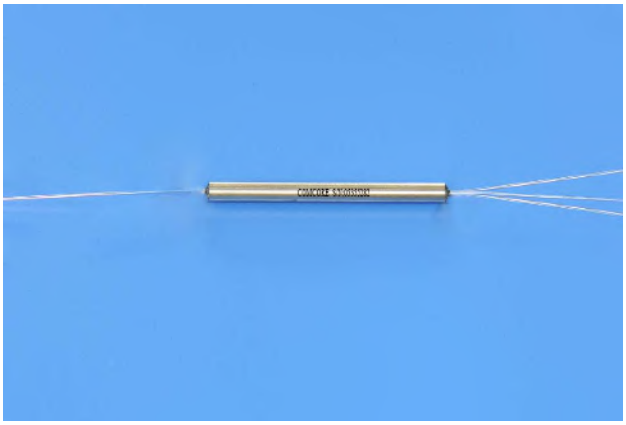
Ordering Information

P	M	S	S		3								
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm L=780nm K=830nm P=2000nm S=Specify	Structure 3=1x3	Splitting Ratio 90=5:90:5 80=10:80:10 70=15:70:15 60=20:60:20 50=25:50:25 40=30:40:30 33=33:33:33 30=35:30:35 20=40:20:40 …	Grade P=Premium A=A grade	Package 5=S6 with 250μm bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	Fiber Type E=Panda fiber L=Large mode area panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x3 Polarization-Insensitive Fused Hybrid PM Fiber Splitter



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Optical Sensor
- Coherent Optical System
- Optical Testing Equipment

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x3			
Central Wavelength		nm	780, 830, 980,1030, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.5	0.7	0.4	0.6
Excess Loss	Max.	dB	0.7	0.9	0.6	0.8
PDL for PM Channel	Max.	dB	0.1	0.2	0.1	0.2
PER for PM Channel	Min.	dB	18	15	18	16
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6=Ø3x54 / S12=Ø4x70 / M2=7.5x18x90			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)			
	Premium		A-Grade	
	Through Port	Coupling Port	Through Port	Coupling Port
5:90:5	±2.5	±1.5	±3.0	±1.8
10:80:10	±2.8	±1.6	±3.2	±2.0
20:60:20	±3.3	±2.0	±3.7	±2.5
25:50:25	±3.5	±2.4	±4.0	±3.0
33:33:33	±6.0	±6.0	±8.0	±8.0
40:20:40	±5.0	±6.0	±6.0	±7.0

Fiber Type	Common Port	Through Port	Coupling Port 1	Coupling Port 2
Type 1	Panda Fiber	Panda Fiber	G652 Fiber or Equivalent Fiber	G652 Fiber or Equivalent Fiber
Type 2	Panda Fiber	Panda Fiber	HI1060 Fiber or Equivalent Fiber	HI1060 Fiber or Equivalent Fiber
Type 3	Panda Fiber	Panda Fiber	HI780C Fiber or Equivalent Fiber	HI780C Fiber or Equivalent Fiber
Type 4	Panda Fiber	Panda Fiber	G652 Fiber or Equivalent Fiber	Panda Fiber
Type 5	Panda Fiber	Panda Fiber	HI1060 Fiber or Equivalent Fiber	Panda Fiber
Type 6	Panda Fiber	Panda Fiber	HI780C Fiber or Equivalent Fiber	Panda Fiber

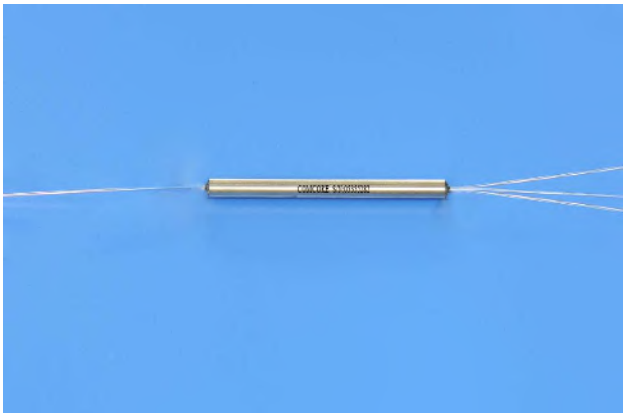
Ordering Information

P	I	B	S		3								
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm R=1030nm 9=980nm L=780nm K=830nm P=2000nm S=Specify	Structure 3=1x3	Splitting Ratio 90=5:90:5 80=10:80:10 60=20:60:20 50=25:50:25 33=33:33:33 20=40:20:40	Grade P=Premium A=A grade	Package 5=S6 with 250μm bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	Fiber Type 1=Type 1 2=Type 2 3=Type 3 4=Type 4 5=Type 5 6=Type 6	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x3 Polarization-Insensitive Fused PM Fiber Splitter



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Optical Sensor
- Coherent Optical System
- Optical Testing Equipment

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x3			
Central Wavelength		nm	780, 830, 850,980,1030, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.8	1.0	0.4	0.6
Excess Loss	Max.	dB	1.0	1.2	0.6	0.8
Polarization Dependent Loss	Max.	dB	0.1	0.2	0.1	0.2
Polarization Extinction Ratio	Min.	dB	16	14	18	16
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6=Ø3x54 / S12=Ø4x70 / M2=7.5x18x90			

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)			
	Premium		A-Grade	
	Through Port	Coupling Port	Through Port	Coupling Port
5:90:5	±2.5	±1.5	±3.0	±1.8
10:80:10	±2.8	±1.6	±3.2	±2.0
15:70:15	±3.0	±1.8	±3.5	±2.4
20:60:20	±3.3	±2.0	±3.7	±2.5
25:50:25	±3.5	±2.4	±4.0	±3.0
30:40:30	±4.0	±3.0	±5.0	±4.0
33:33:33	±6.0	±6.0	±8.0	±8.0
35:30:35	±4.0	±5.0	±5.0	±6.0
40:20:40	±5.0	±6.0	±6.0	±7.0

Ordering Information

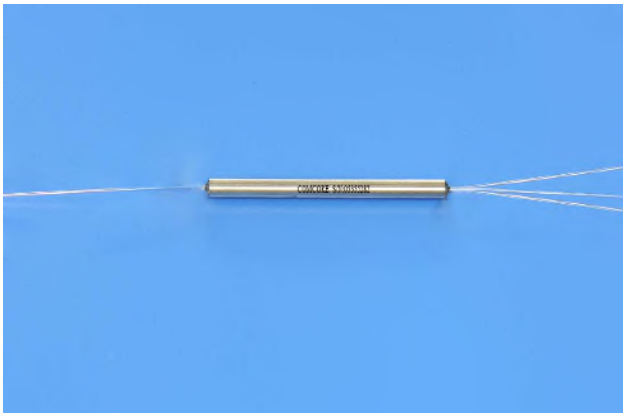
P I N S [ ] 3 [ ][ ] [ ] [ ] [ ] [ ] [ ]

- Wavelength: 4=1550nm, 5=1480nm, 7=1310nm, 8=1064nm, R=1030nm, 9=980nm, A=850nm, L=780nm, K=830nm, P=2000nm, S=Specify
- Structure: 3=1x3
- Splitting Ratio: 90=5:90:5, 80=10:80:10, 70=15:70:15, 60=20:60:20, 50=25:50:25, 40=30:40:30, 33=33:33:33, 30=35:30:35, 20=40:20:40, …
- Grade: P=Premium, A=A grade
- Package: 5=S6 with 250μm bare fiber pigtail, B=S12 with 0.9mm loose tube, E=M2 with 3mm cable
- Fiber Type: E=Panda fiber, L=Large mode area panda fiber
- Fiber Length: 0=0.5m, 1=0.75m, 2=1.0m, 3=1.5m, 4=2.0m, S=Specify
- Connector: 0=None, 1=FC/PC, 2=FC/SPC, 3=FC/APC, 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x3 33:33:33 Fused PM Fiber Broadband Splitter



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Optical Sensor
- Coherent Optical System
- Optical Testing Equipment

Specifications			Splitting Ratio:	33:33:33
Parameter		Unit	Premium	A grade
Port Configuration			1x3	
Central Wavelength		nm	1310, 1480, 1550, 2000	
Bandwidth		nm	±30	
Excess Loss	Typ.	dB	0.3	0.5
Excess Loss	Max.	dB	0.6	0.8
Polarization Extinction Ratio	Min.	dB	20	17
Splitting Ratio Tolerance	Max.	%	±8	±10
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S12=Ø4x70 / M2=7.5x18x90	

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

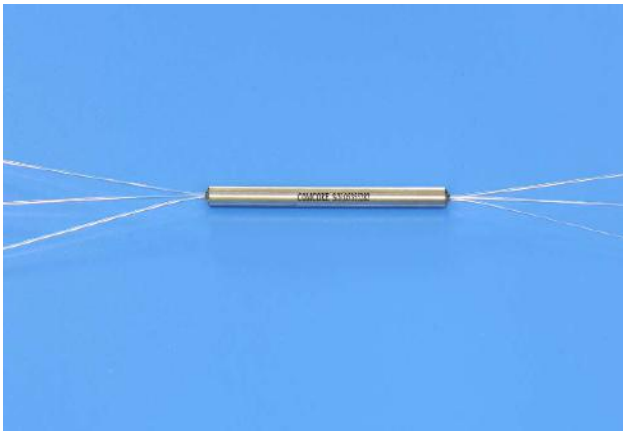
Ordering Information

P	M	B	S		3	3	3					
				Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure 3=1x3	Splitting Ratio 33=33:33:33		Grade P=Premium A=A grade	Package 5=S6 with 250µm bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

3x3 Fused PM Fiber Standard Splitter (Mixer)



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Optical Sensor
- Coherent Optical System
- Optical Testing Equipment

Specifications			Splitting Ratio:	33:33:33
Parameter		Unit	Premium	A grade
Port Configuration			3x3	
Central Wavelength		nm	1310, 1480, 1550, 2000	
Bandwidth		nm	±20	
Excess Loss	Typ.	dB	0.6	0.8
Excess Loss	Max.	dB	0.8	1.0
Polarization Extinction Ratio	Min.	dB	17	15
Splitting Ratio Tolerance	Max.	%	±10	±13
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S12=Ø4x70 / M2=7.5x18x90	

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

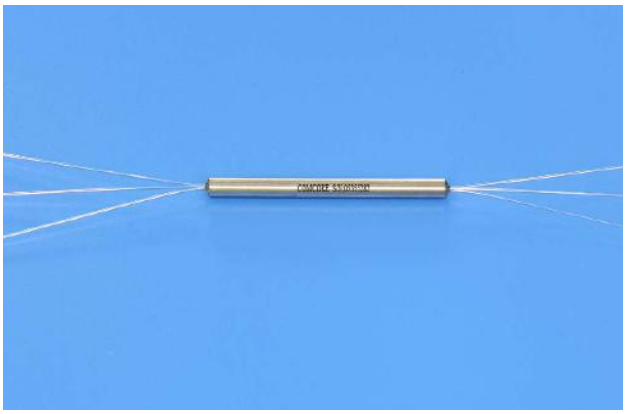
Ordering Information

P	M	S	S			3	3						
				Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure A=3x3	Splitting Ratio 33=33:33:33		Grade P=Premium A=A grade	Package 5=S6 with 250µm bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	Fiber Type E=Panda fiber L=Large mode area panda fiber		Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

3x3 Polarization-Insensitive Fused PM Fiber Splitter (Mixer)



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Optical Sensor
- Coherent Optical System
- Optical Testing Equipment

Specifications			Splitting Ratio:	33:33:33
Parameter		Unit	Premium	A grade
Port Configuration			3x3	
Central Wavelength		nm	1310, 1480, 1550, 2000	
Bandwidth		nm	±20	
Excess Loss	Typ.	dB	0.7	0.9
Excess Loss	Max.	dB	0.9	1.1
Polarization Dependent Loss	Max.	dB	0.1	0.2
Polarization Extinction Ratio	Min.	dB	17	15
Splitting Ratio Tolerance	Max.	%	±10	±13
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S12=Ø4x70 / M2=7.5x18x90	

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Ordering Information

P	I	B	S			3	3					
Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure A=3x3	Splitting Ratio 33=33:33:33	Grade P=Premium A=A grade	Package 5=S6 with 250μm bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC					

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x4(2x4) & 1x8(2x8) Fused PM Fiber Splitter Module

Product Features

- Low Excess Loss
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Nx4(N=1,2)						Nx8(N=1,2)					
Central Wavelength		nm	1550, 1310		980, 1064		780, 830		1550, 1310		980, 1064		780, 830	
Bandwidth		nm	± 20											
Splitting Ratio		%	25						12.5					
Splitting Ratio Tolerance		%	± 4						± 3					
Grade			P	A	P	A	P	A	P	A	P	A	P	A
Excess Loss	Max.	dB	0.8	1.0	1.0	1.2	1.2	1.4	1.0	1.2	1.2	1.4	1.4	1.6
PER	Min.	dB	18	16	16	14	16	14	16	14	14	12	14	12
Operating power	Max.	W	2											
Operating Temperature		°C	-20 to +85											
Storage Temperature		°C	-50 to +85											
Package Type		mm	M5=10x80x100						M6=18x115x141					

All specifications are before connectors. PER is 2dB lower and EL is 0.2 dB higher after connectors.

Ordering Information

P	M	S	M										
Wavelength 4=1550nm 7=1310nm 8=1064nm 9=980nm K=830nm L=780nm S=Specify				Structure 14=1x4 24=2x4 18=1x8 28=2x8		Grade P=Premium A=A grade	Package H=M5 I=M6	Fiber Type E=Panda Fiber L=Large mode area panda fiber	Pigtail M=0.9mm loose tube L=3mm Cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC		

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

125μm Polarization-Maintaining Optical Fiber Polarizer

Product Features

- Stable extinction ratio
- Low insertion loss
- Low back reflection
- Bi-Directional Operation
- All-Fiber Construction

Product Applications

- Optical testing systems
- Optical fiber sensors
- Optical fiber Lasers
- Optical Sources

Specifications

Parameter		Unit	Premium	A Grade	Premium	A Grade
Central Operating Wavelength		nm	830, 980, 1064		1310, 1480, 1550, 2000	
Bandwidth	Max	nm	+/-30	+/-20	+/-30	+/-20
Extinction ratio	Min.	dB	25	23	25	23
Insertion loss	Typ.	dB	1.0	1.2	0.4	0.7
Insertion Loss	Max	dB	1.2	1.5	0.7	1.0
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-55 to +85			
Package Type		mm	S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90			
Fiber Type			125/250μm PM Panda fiber			

Ordering Information

P	M	F	P		1	0	0					

Wavelength
4=1550nm
5=1480nm
7=1310nm
8=1064nm
9=980nm
K=830nm
P=2000nm
S=Specify

Grade
P=Premium
A=A Grade

Package
5=S6 with 250μm bare fiber pigtail
7= S8 with 0.9mm loose tube
D= M1 with 3mm cable

Fiber Type
E=125μm Panda fiber

Fiber Length
0=0.5m
1=0.75m
2=1.0m
S=Specify

Connector
0=None
1=FC/PC
3=FC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

80µm Polarization-Maintaining Optical Fiber Polarizer

Product Features

- Stable extinction ratio
- Low insertion loss
- Low back reflection
- Bi-Directional Operation
- All-Fiber Construction

Product Applications

- Optical testing systems
- Optical fiber sensors
- Optical fiber Lasers
- Optical Sources

Specifications

Parameter		Unit	Premium Grade	A Grade
Central Operating Wavelength		nm	1310, 1550, 2000	
Bandwidth	Max.	nm	+/-30	+/-20
Extinction ratio	Min.	dB	24	22
Insertion loss	Typ.	dB	0.5	0.8
Max Insertion Loss	Max.	dB	0.8	1.2
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-55 to +85	
Package Size		mm	S5=Ø3x40 / S6=Ø3x54	
Fiber Type			80/165µm Panda PM fiber	

Ordering Information

P	M	F	P		1	0	0					
				Wavelength 4=1550nm 7=1310nm P=2000nm S=Specify				Grade P=Premium A=A Grade	Package 4=S5 with 80/165µm bare fiber 5=S6 with 0.9mm loose tube	Fiber Type F=80µm Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

Fiber Optic Depolarizer

Product Features

- Low Insertion Loss
- Low DOP
- Excellent Return Loss
- Wide wavelength operating range
- All-fiber construction

Product Applications

- Raman amplifier pump laser Systems
- EDFA pump laser
- Polarization measurement systems
- Fiber optic gyroscopes
- Optical fiber sensor systems
- ASE, SLD and ELED sources

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Central Wavelength		nm	980, 1064		1260~1625	
Insertion Loss	Max.	dB	1.6	1.8	1.5	1.6
Degree of Polarization	Max.	%	5		5	
Source line width	Min.	nm	0.1		0.1	
Input Fiber			Hi 1060/OFS-980		G652 / Panda Fiber (PM)	
Output Fiber			Hi1060/Panda Fiber (PM)		G652 / Panda Fiber (PM)	
Return loss		dB	70			
Operating Temperature		°C	-5 to +70			
Storage Temperature		°C	-50 to +85			
Package Type		mm	100x80x10			

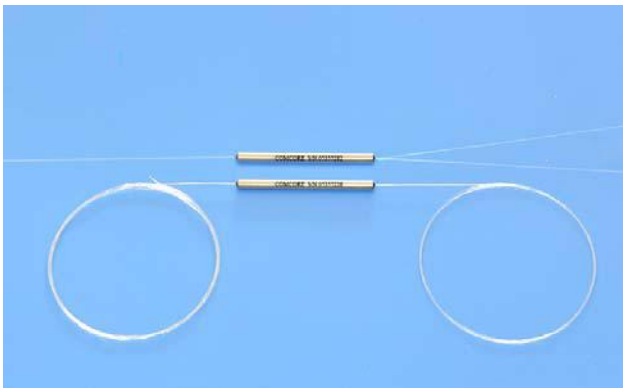
Ordering Information

D	P	O	L										
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm 9=980nm S=Specify	Grade P=Premium A=A grade	Package H=M5	Cable Type S=250μm bare fiber M=0.9mm loose tube L=3mm cable	Fiber Type E=Panda fiber L=Large mode area panda fiber	Source Line Width 1=>5nm 2=2.5~5nm 3=1~2.5nm 4=0.4~1nm 5=0.2~0.4nm 6=0.1~0.2nm	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify		Connector at Port 1 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC	Connector at Port 1 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2 980/1064nm Fused PM Fiber Standard WDM



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

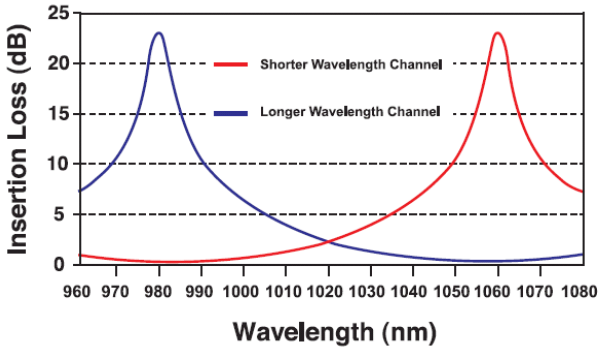
Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1064nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±5	
Insertion Loss	Max.	dB	0.5	0.7
Polarization Extinction Ratio	Min.	dB	17	15
Isolation@ 1064±5nm	Min.	dB	13	11
Signal Channel		nm	1064±5	
Insertion Loss	Max.	dB	0.5	0.7
Polarization Extinction Ratio	Min.	dB	17	15
Isolation@ 980±5nm	Min.	dB	13	11
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9=Ø3x76 / S10=Ø3x92 / M3=7.5x18x85	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Typical Spectrum



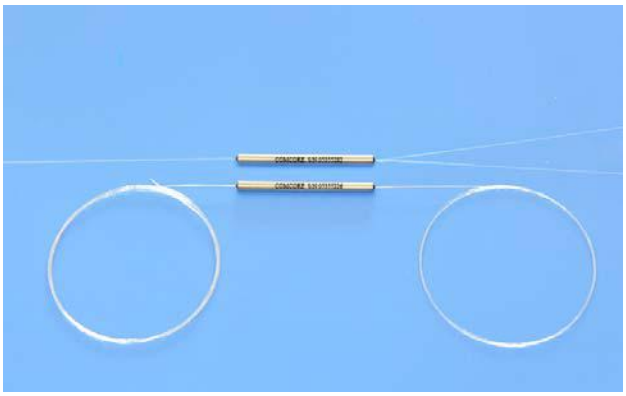
Ordering Information

P	M	S	W			0	0					
				Wavelength C=980/1064nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 8=S9 with 250µm bare fiber pigtail 9=S10 with 0.9mm loose tube F=M3 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 980/1310nm Fused PM Fiber Standard WDM



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1310nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±10	
Insertion Loss	Max.	dB	0.5	0.6
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 1310±10nm	Min.	dB	17	15
Signal Channel		nm	1310±10	
Insertion Loss	Max.	dB	0.7	0.9
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 980±10nm	Min.	dB	17	15
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S7=Ø3x60 / S9=Ø3x76 / M1=9x16x90	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

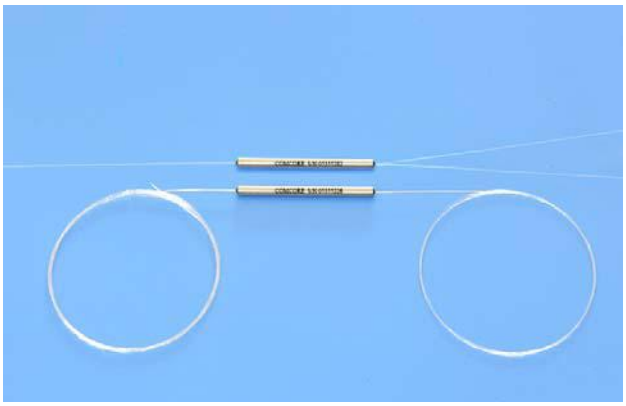
Ordering Information

P	M	S	W			0	0					
				Wavelength 4=980/1310nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 6=S7 with 250μm bare fiber pigtail 8=S9 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 980/1550nm Fused PM Fiber Standard WDM



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

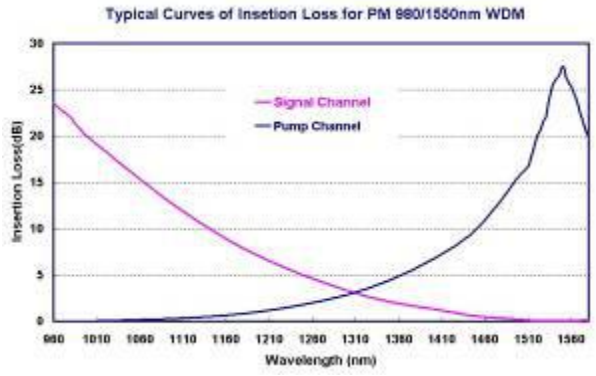
Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1550nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±10	
Insertion Loss	Max.	dB	0.5	0.6
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 1528 to 1565nm	Min.	dB	18	17
Signal Channel		nm	1528 to 1565	
Insertion Loss	Max.	dB	0.7	0.9
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 980±10nm	Min.	dB	18	17
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Typical Spectrum



Ordering Information

P	M	S	W			0	0					

Wavelength
1=980/1550nm
S=Specify

Structure
1=1x2

Grade
P=Premium
A=A grade

Package
5=S6 with 250µm bare fiber pigtail
7=S8 with 0.9mm loose tube
D=M1 with 3mm cable

Fiber Type
E=Panda fiber

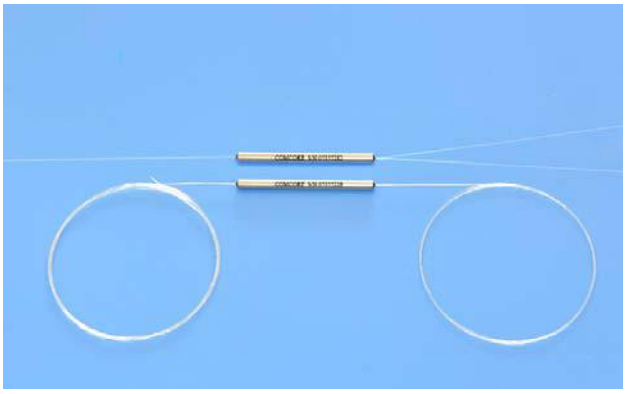
Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
2=FC/SPC
3=FC/APC
7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 1064/1550nm Fused PM Fiber Standard WDM



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			1064/1550nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	1064±10	
Insertion Loss	Max.	dB	0.5	0.6
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 1530 to 1565nm	Min.	dB	18	17
Signal Channel		nm	1530 to 1565	
Insertion Loss	Max.	dB	0.7	0.9
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 1064±10nm	Min.	dB	18	17
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S7=Ø3x60 / S9=Ø3x76 / M1=9x16x90	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

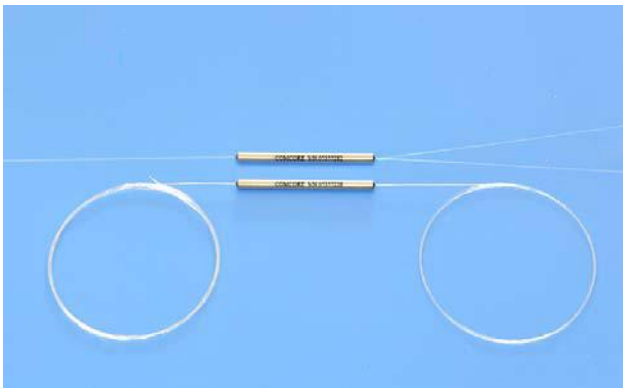
Ordering Information

P	M	S	W				0	0					
				Wavelength E=1064/1550nm S=Specify	Structure 1=1x2				Grade P=Premium A=A grade	Package 6=S7 with 250µm bare fiber pigtail 8=S9 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 1310/1550nm Fused PM Fiber Standard WDM



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- Instrument
- Coherent Communication System
- Testing System

Specifications			1310nm/1550nm	
Parameter		Unit	Premium	A grade
1310nm Channel		nm	1310±10	
Insertion Loss	Max.	dB	0.3	0.5
Polarization Extinction ratio	Min.	dB	18	16
Isolation@ 1550±10nm	Min.	dB	16	14
1550nm Channel		nm	1550±10	
Insertion Loss	Max.	dB	0.3	0.5
Polarization Extinction ratio	Min.	dB	18	16
Isolation@ 1310±10nm	Min.	dB	16	14
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

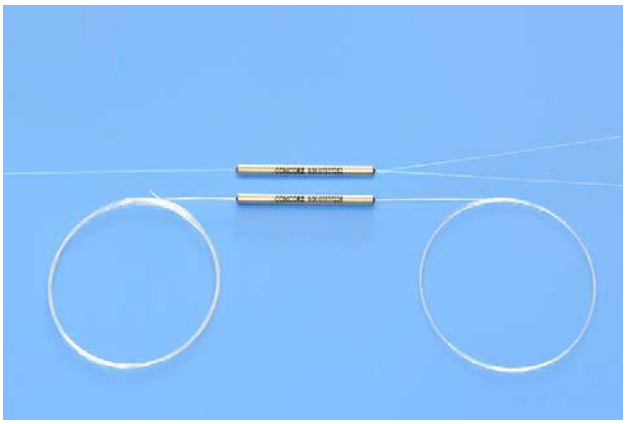
Ordering Information

P	M	S	W			0	0					
				Wavelength 5=1310/1550nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 5=S6 with 250μm bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) 1480/1550nm Fused PM Fiber Standard WDM



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

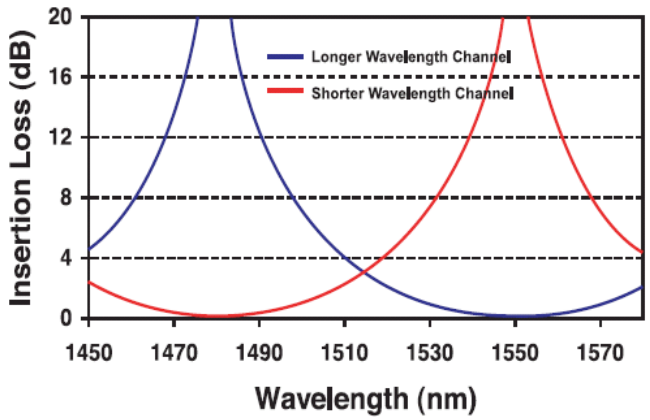
Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers
- Optical fiber communication

Specifications			1480/1550nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	1480±5	
Insertion Loss	Max.	dB	0.5	0.7
Polarization Extinction Ratio	Min.	dB	17	15
Isolation@ 1550±5nm	Min.	dB	13	11
Signal Channel		nm	1550±5	
Insertion Loss	Max.	dB	0.5	0.7
Polarization Extinction Ratio	Min.	dB	17	15
Isolation@ 1480±5nm	Min.	dB	13	11
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9=Ø3x76 / S10=Ø3x92 / M3=7.5x18x85	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Typical Spectrum



Ordering Information

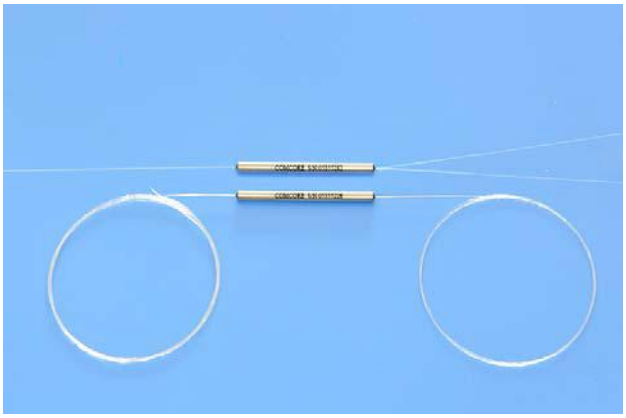
P	M	S	W			0	0					

Wavelength	Structure	Grade	Package	Fiber Type	Fiber Length	Connector
7=1480/1550nm 8=1480/1590nm S=Specify	1=1x2 2=2x2	P=Premium A=A grade	8=S9 with 250μm bare fiber pigtail 9=S10 with 0.9mm loose tube F=M3 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) 532/635nm (450/532nm) Fused PM Fiber WDM



Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

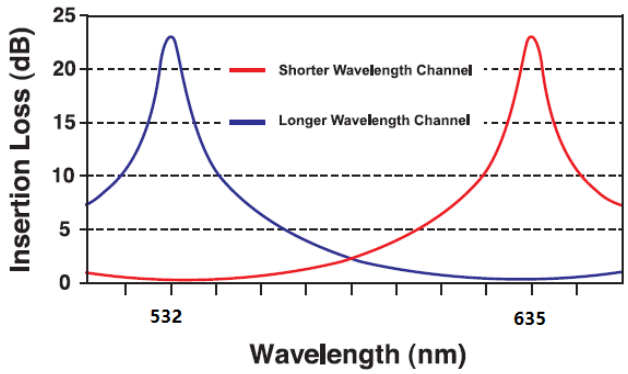
Product Applications

- Virtual Reality(VR) and AR
- Medical Instrument
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			532/635nm		450/532nm	
Parameter		Unit	Premium	A grade	Premium	A grade
Pump Channel		nm	532±5		450±5	
Insertion Loss	Max.	dB	1.4	1.5	1.4	1.5
Polarization Extinction Ratio	Min.	dB	17	15	17	15
Isolation@ 635±5nm	Min.	dB	12	11	12	11
Signal Channel		nm	635±5		532±5	
Insertion Loss	Max.	dB	1.4	1.5	1.4	1.5
Polarization Extinction Ratio	Min.	dB	17	15	17	15
Isolation@ 532±5nm	Min.	dB	12	11	12	11
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S9=Ø3x76 / S10=Ø3x92 / M3=7.5x18x85			

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Typical Spectrum



Ordering Information

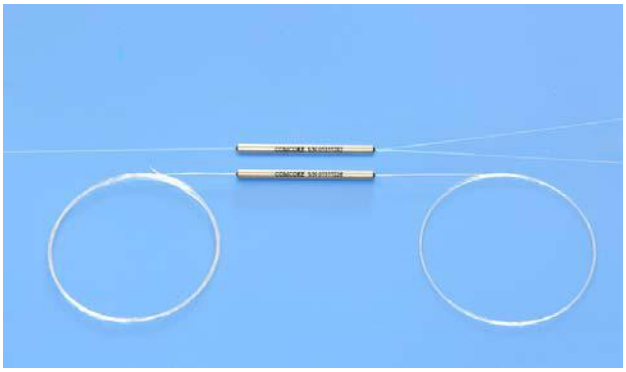
P	M	S	W			0	0					

Wavelength	Structure	Grade	Package	Fiber Type	Fiber Length	Connector
F=532/635nm A=450/532nm	1=1x2 2=2x2	P=Premium A=A grade	8=S9 with 250μm bare fiber pigtail 9=S10 with 0.9mm loose tube F=M3 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 Polarization-Insensitive 980/1030nm Hybrid PM Fiber WDM



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1030nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±5	
Insertion Loss	Max.	dB	0.6	0.8
Isolation@ 1030±5nm	Min.	dB	13	11
Signal Channel		nm	1030±5	
Insertion Loss	Max.	dB	0.6	0.8
Isolation@ 980±5nm	Min.	dB	13	11
PER for 980nm or 1030nm Channel	Min.	dB	17	15
PDL for 980nm or 1030nm Channel	Max.	dB	0.1	0.2
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9=Ø3x76 / S10=Ø3x92 / M3=7.5x18x85	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Fiber Type	Common Port	980nm Port	1030nm Port
Type 1	Panda Fiber	Panda Fiber	HI1060 Fiber or Equivalent Fiber
Type 2	Panda Fiber	HI1060 Fiber or Equivalent Fiber	Panda Fiber

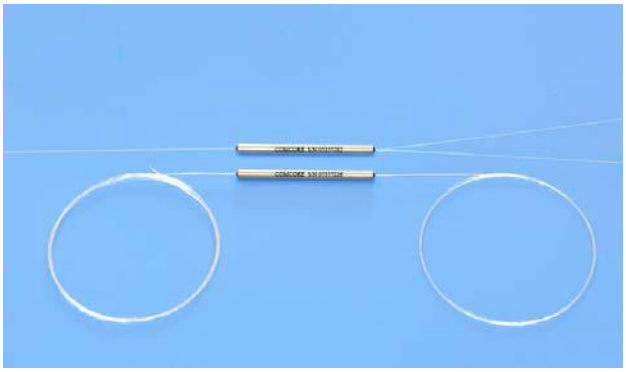
Ordering Information

P	I	S	W			0	1						
				Wavelength I=980/1030nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 8=S9 with 250μm bare fiber pigtail 9=S10 with 0.9mm loose tube F=M3 with 3mm cable	Fiber Type 1=Type 1 2=Type 2	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 Polarization-Insensitive 980/1030nm Fused PM Fiber WDM



Product Features

- Operating on both Fast and Slow Axis
- Low Insertion Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1030nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±5	
Insertion Loss	Max.	dB	0.7	0.9
Polarization Extinction Ratio	Min.	dB	17	15
Isolation@ 1030±5nm	Min.	dB	13	11
Polarization Dependent Loss	Max.	dB	0.1	0.2
Signal Channel		nm	1030±5	
Insertion Loss	Max.	dB	0.7	0.9
Polarization Extinction Ratio	Min.	dB	17	15
Isolation@ 980±5nm	Min.	dB	13	11
Polarization Dependent Loss	Max.	dB	0.1	0.2
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9=Ø3x76 / S10=Ø3x92 / M3=7.5x18x85	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

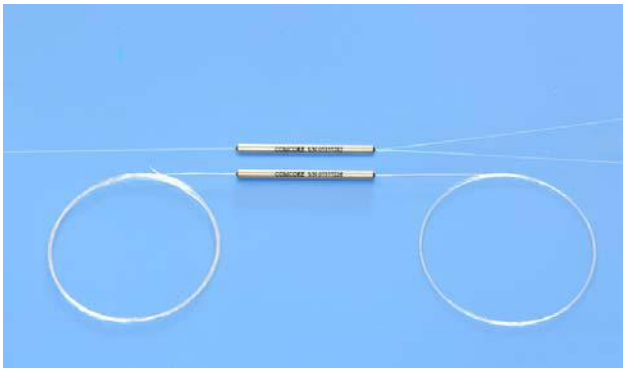
Ordering Information

P	I	S	W			0	0					
				Wavelength I=980/1030nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 8=S9 with 250μm bare fiber pigtail 9=S10 with 0.9mm loose tube F=M3 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 Polarization-Insensitive 980/1064nm Hybrid PM Fiber WDM



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1064nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±5	
Insertion Loss	Max.	dB	0.6	0.8
Isolation@ 1064±5nm	Min.	dB	13	11
Signal Channel		nm	1064±5	
Insertion Loss	Max.	dB	0.6	0.8
Isolation@ 980±5nm	Min.	dB	13	11
PER for 980nm or 1064nm Channel	Min.	dB	17	15
PDL for 980nm or 1064nm Channel	Max.	dB	0.1	0.2
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9=Ø3x76 / S10=Ø3x92 / M3=7.5x18x85	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Fiber Type	Common Port	980nm Port	1064nm Port
Type 1	Panda Fiber	Panda Fiber	HI1060 Fiber or Equivalent Fiber
Type 2	Panda Fiber	HI1060 Fiber or Equivalent Fiber	Panda Fiber

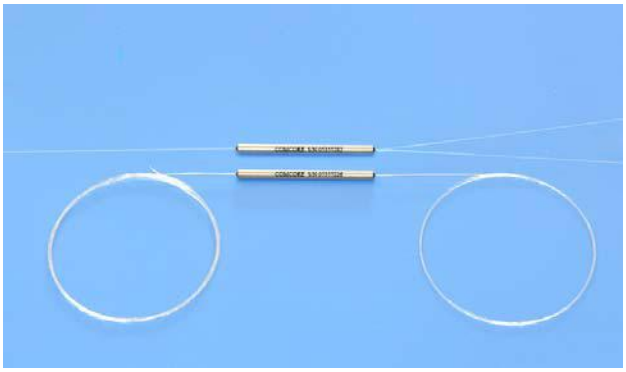
Ordering Information

P	I	S	W			0	1						
				Wavelength C=980/1064nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 8=S9 with 250μm bare fiber pigtail 9=S10 with 0.9mm loose tube F=M3 with 3mm cable	Fiber Type 1=Type 1 2=Type 2	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 Polarization-Insensitive 980/1064nm Fused PM Fiber WDM



Product Features

- Operating on both Fast and Slow Axis
- Low Insertion Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

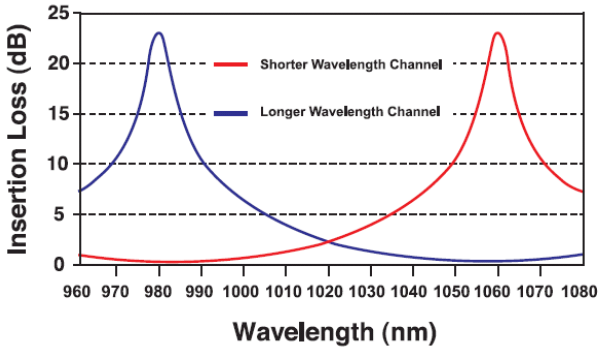
Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1064nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±5	
Insertion Loss	Max.	dB	0.7	0.9
Polarization Extinction Ratio	Min.	dB	17	15
Isolation@ 1064±5nm	Min.	dB	13	11
Polarization Dependent Loss	Max.	dB	0.1	0.2
Signal Channel		nm	1064±5	
Insertion Loss	Max.	dB	0.7	0.9
Polarization Extinction Ratio	Min.	dB	17	15
Isolation@ 980±5nm	Min.	dB	13	11
Polarization Dependent Loss	Max.	dB	0.1	0.2
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9=Ø3x76 / S10=Ø3x92 / M3=7.5x18x85	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Typical Spectrum



Ordering Information

P	I	S	W				0	0						
				Wavelength C=980/1064nm S=Specify		Structure 1=1x2			Grade P=Premium A=A grade	Package 8=S9 with 250μm bare fiber pigtail 9=S10 with 0.9mm loose tube F=M3 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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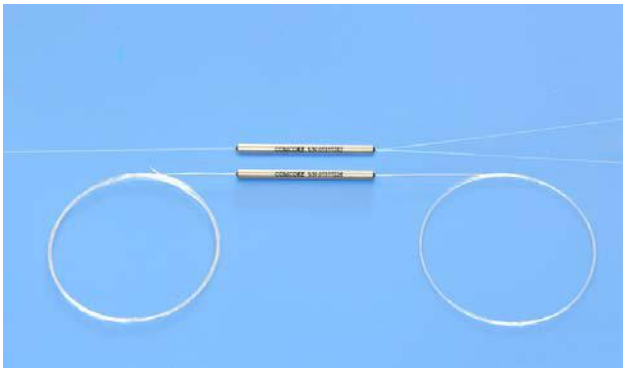
1x2 Polarization-Insensitive 980/1310nm Hybrid PM Fiber WDM



Product Features

- Operating on both Fast and Slow Axis
- Low Insertion Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1310nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±10	
Insertion Loss	Max.	dB	0.5	0.6
Isolation@ 1310±10nm	Min.	dB	17	15
Signal Channel		nm	1310±10	
Insertion Loss	Max.	dB	0.7	0.9
Isolation@ 980±10nm	Min.	dB	17	15
PER for 980nm or 1310nm Channel	Min.	dB	20	17
PDL for 980nm or 1310nm Channel	Max.	dB	0.1	0.2
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S7=Ø3x60 / S9=Ø3x76 / M1=9x16x90	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Fiber Type	Common Port	980nm Port	1310nm Port
Type 1	Panda Fiber	Panda Fiber	G652 Fiber or Equivalent Fiber
Type 2	Panda Fiber	HI1060 Fiber or Equivalent Fiber	Panda Fiber

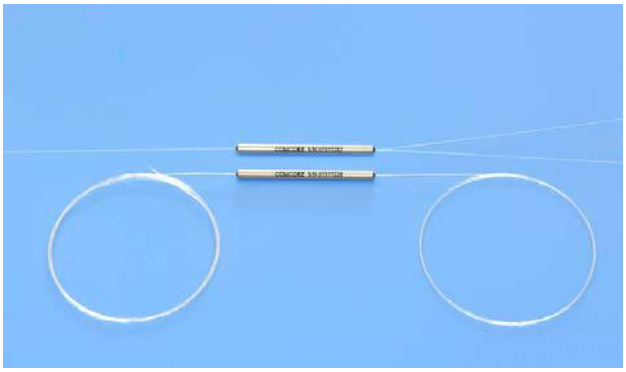
Ordering Information

P	I	S	W			0	1						
				Wavelength 4=980/1310nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 6=S7 with 250μm bare fiber pigtail 8=S9 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type 1=Type 1 2=Type 2	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 Polarization-Insensitive 980/1310nm Fused PM Fiber WDM



Product Features

- Operating on both Fast and Slow Axis
- Low Insertion Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1310nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±10	
Insertion Loss	Max.	dB	0.6	0.7
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 1310±10nm	Min.	dB	17	15
Polarization Dependent Loss	Max.	dB	0.1	0.2
Signal Channel		nm	1310±10	
Insertion Loss	Max.	dB	0.8	1.0
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 980±10nm	Min.	dB	17	15
Polarization Dependent Loss	Max.	dB	0.1	0.2
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S7=Ø3x60 / S9=Ø3x76 / M1=9x16x90	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Ordering Information

P	I	S	W			0	0					
				Wavelength 4=980/1310nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 6=S7 with 250μm bare fiber pigtail 8=S9 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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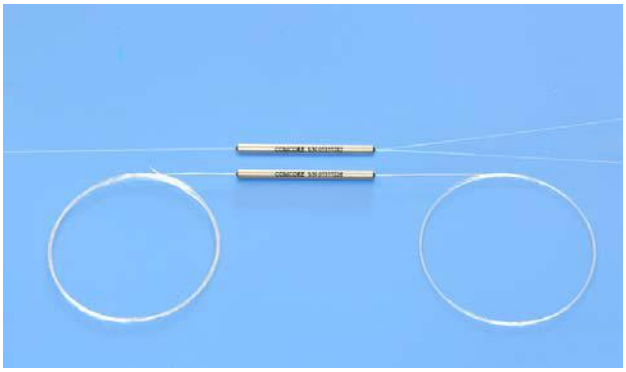
1x2 Polarization-Insensitive 980/1550nm Hybrid PM Fiber WDM



Product Features

- Operating on both Fast and Slow Axis
- Low Insertion Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1550nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±10	
Insertion Loss	Max.	dB	0.5	0.6
Isolation@ 1528 to 1565nm	Min.	dB	18	17
Signal Channel		nm	1528 to 1565	
Insertion Loss	Max.	dB	0.7	0.9
Isolation@ 980±10nm	Min.	dB	18	17
PER for 980nm or 1550nm Channel	Min.	dB	20	17
PDL for 980nm or 1550nm Channel	Max.	dB	0.1	0.2
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Fiber Type	Common Port	980nm Port	1550nm Port
Type 1	Panda Fiber	Panda Fiber	G652 Fiber or Equivalent Fiber
Type 2	Panda Fiber	HI1060 Fiber or Equivalent Fiber	Panda Fiber

Ordering Information

P	I	S	W			0	1						
				Wavelength 1=980/1550nm S=Specify	Structure 1=1x2			Grade P=Premium A=A grade	Package 5=S6 with 250μm bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type 1=Type 1 2=Type 2	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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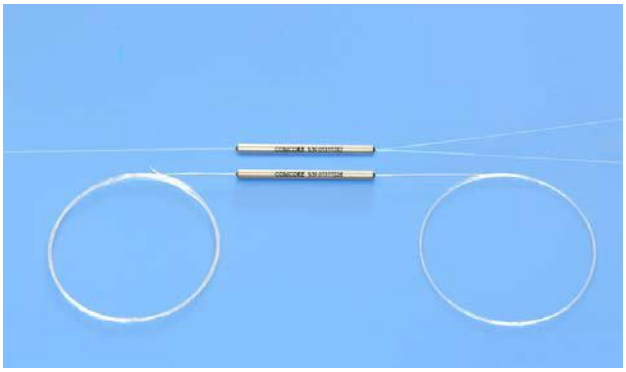
1x2 Polarization-Insensitive 980/1550nm Fused PM Fiber WDM



Product Features

- Operating on both Fast and Slow Axis
- Low Insertion Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFAs
- Monitoring in Coherent Systems
- Fiber Lasers

Specifications			980/1550nm	
Parameter		Unit	Premium	A grade
Pump Channel		nm	980±10	
Insertion Loss	Max.	dB	0.6	0.7
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 1528 to 1565nm	Min.	dB	18	17
Polarization Dependent Loss	Max.	dB	0.1	0.2
Signal Channel		nm	1528 to 1565	
Insertion Loss	Max.	dB	0.8	1.0
Polarization Extinction ratio	Min.	dB	20	17
Isolation@ 980±10nm	Min.	dB	18	17
Polarization Dependent Loss	Max.	dB	0.1	0.2
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90	

All specifications are before connectors. PER is 2dB lower and IL is 0.2dB higher after connectors.

Ordering Information

P	I	S	W				0	0					
				Wavelength 1=980/1550nm S=Specify	Structure 1=1x2				Grade P=Premium A=A grade	Package 5=S6 with 250μm bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

Fused PM Fiber Attenuator

Product Features

- Low Excess Loss
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifiers
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x1			
Central Wavelength		nm	780, 830, 850,980, 1030,1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±20			
Excess Loss	Typ.	dB	0.5	0.6	0.4	0.6
Excess Loss	Max.	dB	0.7	0.8	0.6	0.8
Polarization Extinction Ratio	Min.	dB	18	16	20	17
Operating power	Max.	W	2			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6=Ø3x54 / S8=Ø3x70 / M1=9x16x90			

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

Insertion Loss & Its Tolerance

Insertion Loss(dB)	Insertion Loss Tolerance (dB)		PER for 780~1064nm（dB）		PER for 1310~2000nm（dB）	
	Premium	A grade	Premium	A grade	Premium	A grade
1	±0.1	±0.2	18	16	20	17
2	±0.2	±0.3	18	16	20	17
3	±0.3	±0.4	18	16	20	17
5	±0.7	±0.8	18	16	20	17
10	±1.0	±1.2	18	16	20	17
15	±1.8	±2.2	16	14	18	15
20	±2.5	±3.0	0	0	0	0
30	±3.0	±4.0	0	0	0	0

Ordering Information

P	M	F	O	A									

Wavelength
4=1550nm
5=1480nm
7=1310nm
8=1064nm
R=1030nm
9=980nm
A=850nm
K=830nm
L=780nm
P=2000nm
S=Specify

Insertion Loss
01=1.0dB
02=2.0dB
03=3.0dB
05=5.0dB
10=10dB
15=15dB
20=20dB
30=30dB

Grade
P=Premium
A=A grade

Package
5=S6 with 250μm bare fiber pigtail
7=S8 with 0.9mm loose tube
D=M1 with 3mm cable

Fiber Type
E=Panda fiber
L=Large mode area panda fiber

Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
2=FC/SPC
3=FC/APC
7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

2x1 Fused PM Fiber Standard Combiner

Product Features

- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

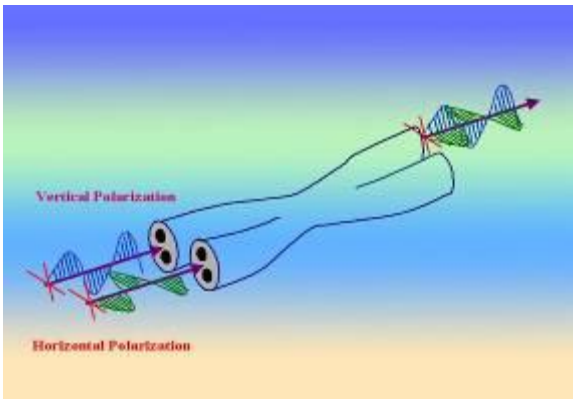
- Pump Combining for EDFA
- High Power Source
- Polarization-independent Source

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			2x1			
Central Wavelength		nm	780, 830, 980, 1064		1310, 1480, 1550, 2000	
Bandwidth		nm	±10			
Insertion Loss in Slow Axis Channel	Max.	dB	1.0	1.2	0.4	0.6
Insertion Loss in Fast Axis Channel	Max.	dB	1.4	1.6	0.8	1.1
Insertion Loss in Fast Axis Channel	Typ.	dB	1.0	1.2	0.5	0.7
Power Handling	Min.	mw	1000			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S9=Ø3x76 / S10=Ø3x92 / M3=7.5x18x85			

All specifications are before connectors. IL is 0.2dB higher after connectors.

Typical Spectrum



Ordering Information

P	M	S	C			0	0					

Wavelength
4=1550nm
5=1480nm
7=1310nm
8=1064nm
9=980nm
L=780nm
K=830nm
P=2000nm
S=Specify

Structure
Y=2x1

Grade
P=Premium
A=A grade

Package
8=S9 with 250µm bare fiber pigtail
9=S10 with 0.9mm loose tube
F=M3 with 3mm cable

Fiber Type
E=Panda fiber
L=Large mode area panda fiber

Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
2=FC/SPC
3=FC/APC
7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

PM Fiber Patch Cords

Product Features

- Low Insertion Loss
- High Extinction Ratio
- High Power Handling
- Excellent Return Loss
- Telecordia GR-326 Compliant

Product Applications

- Power Jumps
- Testing Systems
- PM Fiber Sense Systems
- Optical PM Modules

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Central Wavelength		nm	780, 830, 980, 1064		1310, 1480, 1550, 2000	
Insertion Loss	Max.	dB	0.60	0.80	0.25	0.30
Polarization Extinction Ratio	Min.	dB	25	22	25	22
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			

PORT1 PORT2

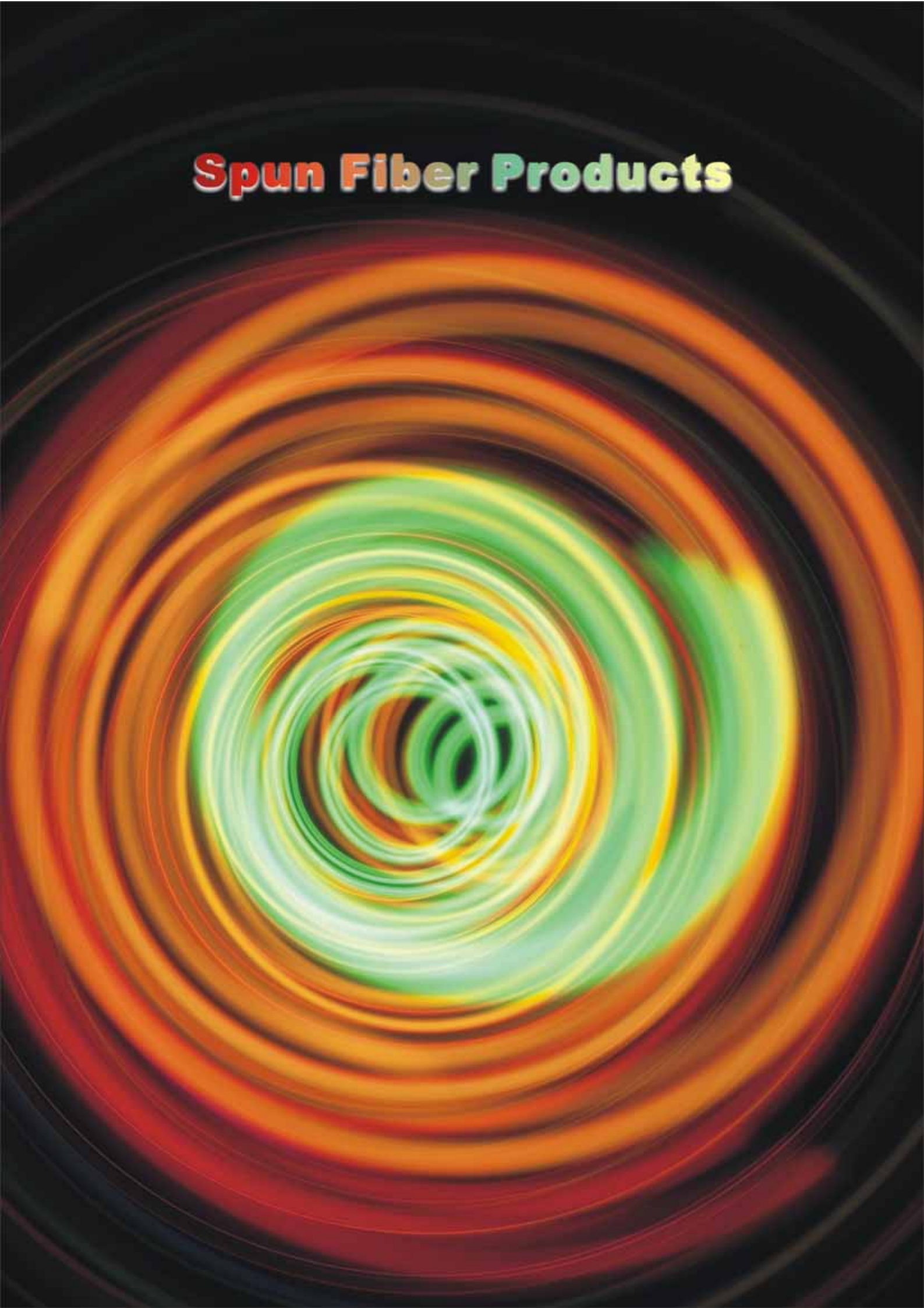
Ordering Information

P	F	P	C									
				Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm 9=980nm L=780nm K=830nm P=2000nm S=Specify	Grade P=Premium A=A grade	Cable Type S=250μm bare fiber M=0.9mm loose tube L=3mm cable	Fiber Type E=250μm Panda fiber L=Large mode area panda fiber	Cable Length 1=1.0m 2=2.0m 3=3.0m 4=4.0m 5=5.0m S=Specify	Align at Port1 S=Slow Axis F=Fast Axis	Align at Port2 S=Slow Axis F=Fast Axis	Connector at Port 1 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC	Connector at port 2 0= None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

Spun Fiber Products



SPUN-R Fiber

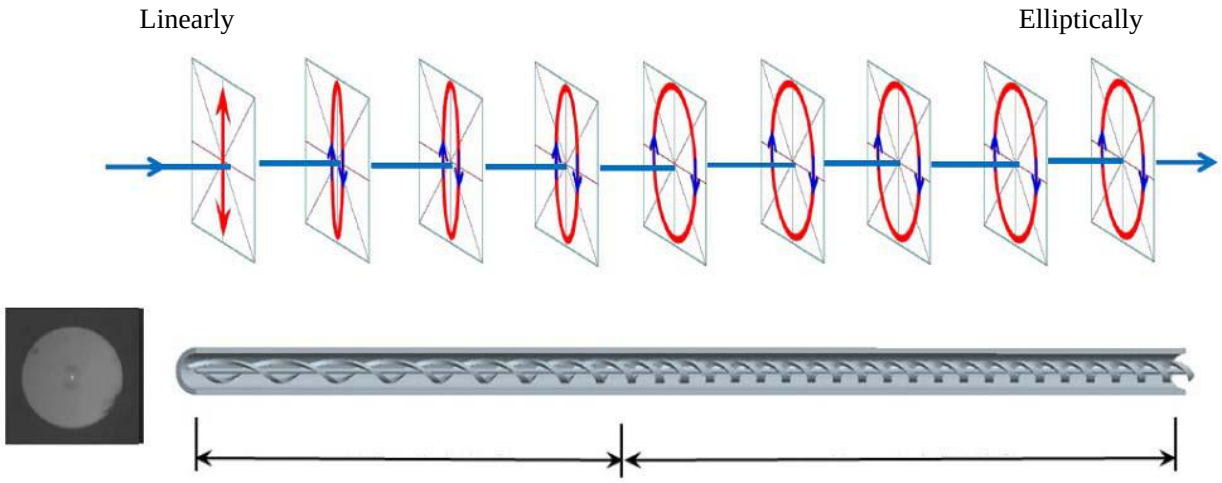
Product Features

- Low Insertion Loss
- Temperature Insensitive
- Precise Spinning Pitch
- High Current Sensitivity
- No Required for Quarter Wave Plate

Product Applications

- Current Sensors
- Lightning Sensor
- Polarization Controller
- Polarization transformers

The controllably-spun birefringent-fiber or all fiber polarization transformer consists essentially of a long spun high-birefringence fiber, fabricated by slowly varying the spin rate of a birefringent fiber preform from very slow to very fast while the fiber is being drawn. The evolution of the eigenstate from a linear polarization state to an elliptical polarization state, induced by slow variation of the intrinsic structure from linear anisotropy at the unspun to elliptical anisotropy at the fast-spun of the other end, enables power coupling between local eigenstates, and relative power in these local eigenstates as a function of distance along the length of the fiber, the extinction ratio of the output state of polarization (SOP) as a function of distance and the normalized spin rate.

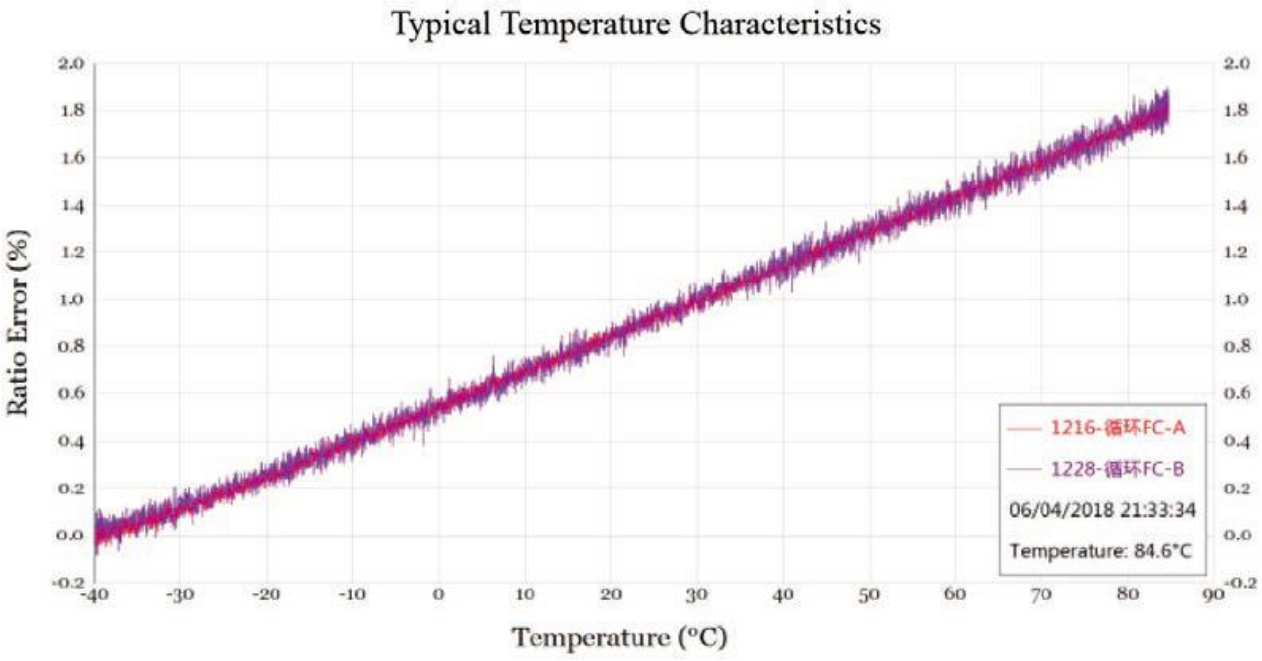


Specifications

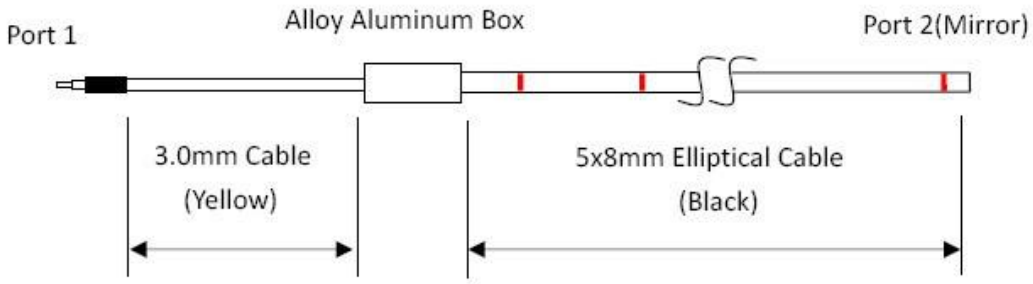
Parameter		Unit	Performance
Operating Wavelength		nm	1310, 1480,1550
Bandwidth		nm	±30nm
Pitch Length for Both of ends		mm	∞
Minimum Pitch Length		mm	3.2
Insertion Loss	Max.	dB/meter	0.1
Insertion Loss	Typ.	dB/meter	0.06
Modal Field Diameter	Typ.	μm	9.0±0.5
Bending Radii	Min.	mm	75
Operating Temperature		°C	-40 to +85

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

Temperature Characteristics



Diagram



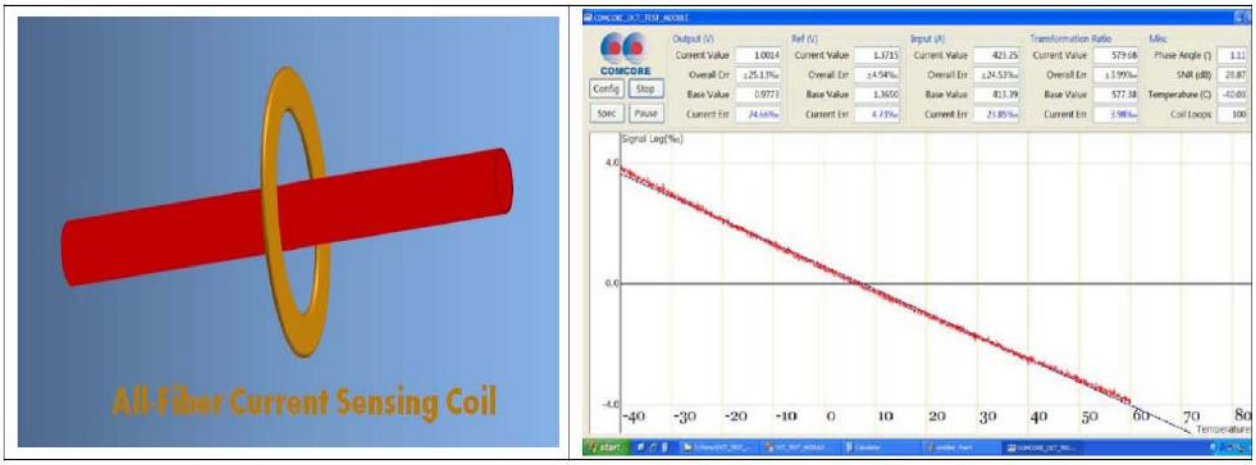
Ordering Information

S	P	U	N	R		1	0					4
					Wavelength 4=1550nm 5=1480nm 7=1310nm S=Specify			Fiber Type P= Panda Fiber E= E-core Fiber	Jacket Type M=0.9mm loose tube L=3mm cable	Fiber Length 0= 0.5 m 1= 1.0 m 2= 2.0 m 3= 3.0 m … 9= 9.0 m 10= 10.0 m	Connector at Port1 0=None 1=FC/PC 2=FC/UPC 3=FC/APC	Connector at Port2 4=Mirror

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

All-Fiber Current Sensing Coils

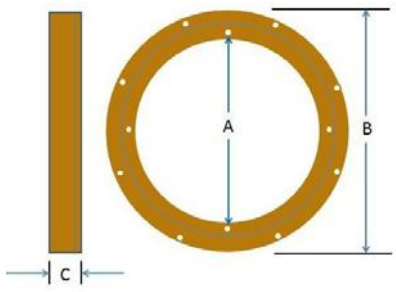


Product Features

- Low Insertion Loss
- Temperature Insensitive
- Precise Spinning Pitch
- No Requirement for Quarter Wave Plates
- High Current Sensitivity
- High Long-Term Stability
- Polarization Stable
- Vibration and Shock Stable

Basic Optical Specifications

Parameters			Performance
Operating Wavelength.		nm	1310, 1550
Bandwidth		nm	±30
Temperature Coefficient for Transmissive Model		%/°C	±0.002
Temperature Coefficient for Reflective Model		%/°C	±0.004
Linearity deviation for Temperature Coefficient	Type	%	±2
Insertion Loss	Typ.	dB	3.0
Insertion Loss	Max.	dB	4.0
Modal Field Diameter	Typ.	μm	9.0±0.5
Operating Temperature		°C	-40 to +85

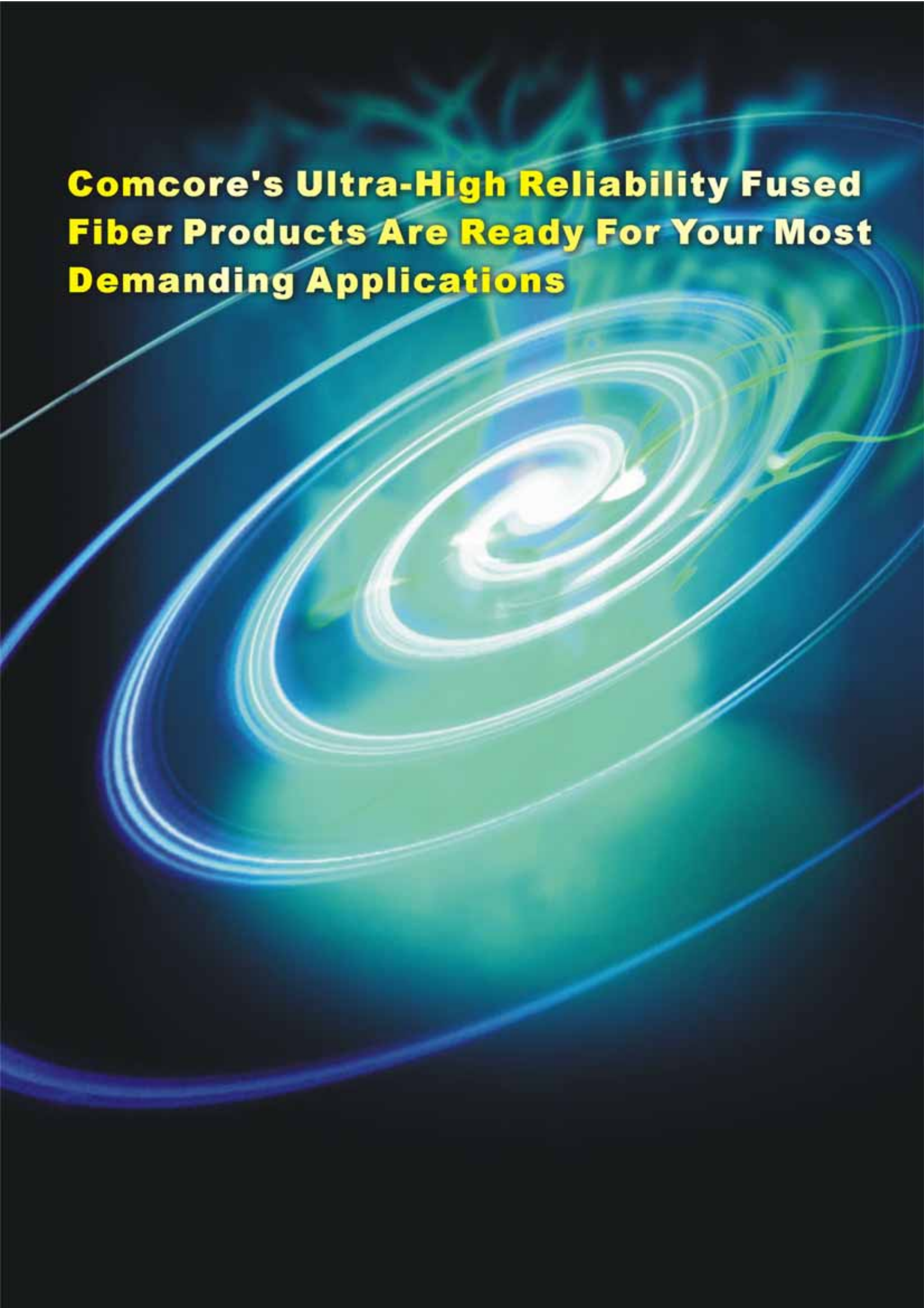


Voltage Grade	A (mm)	B (mm)	C (mm)
1 For 110kV	*170*	*250*	*25*
2 For 220kV	280	360	25
3 For 500kV	560	640	25
4 For 750kV	800	900	30
5 For 1000kV	1200	1300	30

Ordering Information

C	O	I	L				1	0	E				0
				Voltage Grade 1=110kV 2=220kV 3=500kV 4=750kV 5=1000kV	Sensing Model T=Transmissive R=Reflective	Wavelength 4=1550nm 5=1480nm 7=1310nm			Fiber Type E= Panda	Pigtail Type M=0.9mm loose tube L=3mm cable	Pigtail Length 1= 1.0 m 2= 2.0 m 3= 3.0 m		Connector 0= None

Note: 1. Central Wavelength can be customized for different applications.
2. A, B, C can be customized.


Comcore's Ultra-High Reliability Fused Fiber Products Are Ready For Your Most Demanding Applications

1x2(2x2) Single Mode C/L Band Broadband Tap

Product Features

- Moisture-Resistant
- Impact-Resistant
- Vibration-Resistant
- Compact Size

Product Applications

- Submarine Cable System
- Submarine Optical Amplifier
- Optical Communication System
- EDFA Module

Specifications

Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	C Band (1528-1565) or L Band (1570-1605)	
Excess Loss	Typ.	dB	0.07	0.1
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	6,000 hours
Temperature Cycling (-40°C to 85°C)	1,000 cycles
Damp Heat Test (85°C /85%RH)	5,000 hours
Low Temperature Storage (-40°C)	6,000 hours
Impact Test (500g, 1ms)	8 times/each axes (3 axes)
Vibration Test (20 to 2,000 Hz/20g)	20 minutes/12 times (3 axes)

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss(dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0

Ordering Information

H	R	B	S										
				Wavelength C=C Band L=L Band	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5		Grade P=Premium A=A grade	Package 5=S6	Fiber Type 1=G652 or Equivalent		Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.

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1x2 (2x2) Ultra-High Reliability Single Mode Narrowband Splitter

Product Features

- Moisture-Resistant
- Impact-Resistant
- Vibration-Resistant
- Compact Size

Product Applications

- Submarine Cable System
- Submarine Optical Amplifier
- Optical Communication System
- EDFA Module

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.05	0.1
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	6,000 hours
Temperature Cycling (-40°C to 85°C)	1,000 cycles
Damp Heat Test (85°C /85%RH)	5,000 hours
Low Temperature Storage (-40°C)	6,000 hours
Impact Test (500g, 1ms)	8 times/each axes (3 axes)
Vibration Test (20 to 2,000 Hz/20g)	20 minutes/12 times (3 axes)

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss(dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

Ordering Information

H	R	N	S										
				Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 50=50:50		Grade P=Premium A=A grade	Package 5=S6	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 H=SM1950 A=Large mode area fiber	Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

2x2 50/50 Single Mode Narrowband Splitter

Product Features

- Moisture-Resistant
- Impact-Resistant
- Vibration-Resistant
- Compact Size

Product Applications

- Submarine Cable System
- Submarine Optical Amplifier
- Optical Communication System
- EDFA Module

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			2x2	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
PDL	Max.	dB	0.05	0.1
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	6,000 hours
Temperature Cycling (-40°C to 85°C)	1,000 cycles
Damp Heat Test (85°C /85%RH)	5,000 hours
Low Temperature Storage (-40°C)	6,000 hours
Impact Test (500g, 1ms)	8 times/each axes (3 axes)
Vibration Test (20 to 2,000 Hz/20g)	20 minutes/12 times (3 axes)

Ordering Information

H	R	N	S										
				Wavelength 6=1475nm 9=980nm	Structure 2=2x2	Splitting Ratio 50=50:50		Grade P=Premium A=A grade	Package 5=S6	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 A=Large mode area fiber	Pigtail S=250µm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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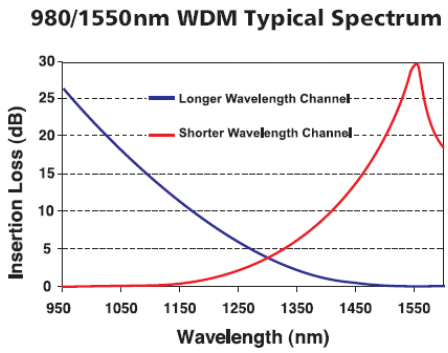
980/1550nm(980/1590nm) Single Mode Fiber WDM



Product Features

- Moisture-Resistant
- Impact-Resistant
- Vibration-Resistant
- Compact Size

Product Applications

- Submarine Optical Amplifier
- Submarine Optical Module
- Terrestrial Optical Amplifier

Specifications			980/1550nm		980/1590nm	
Parameter		Unit	Premium	A grade	Premium	A grade
Shorter Wavelength Channel		nm	960 to 990		960 to 990	
Insertion Loss	Max.	dB	0.3	0.4	0.3	0.4
PDL	Max.	dB	0.05	0.05	0.05	0.05
Isolation @C band or L band	Min.	dB	20	18	20	18
Longer Wavelength Channel		nm	C Band (1528 to 1565)		L Band (1570 to 1605)	
Insertion Loss	Max.	dB	0.3	0.4	0.3	0.4
PDL	Max.	dB	0.05	0.05	0.05	0.05
Isolation @960 to 990nm	Max.	dB	20	18	20	18
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6	Ø3x54: for bare fiber		

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	6,000 hours
Temperature Cycling (-40°C to 85°C)	1,000 cycles
Damp Heat Test (85°C /85%RH)	5,000 hours
Low Temperature Storage (-40°C)	6,000 hours
Impact Test (500g, 1ms)	8 times/each axes (3 axes)
Vibration Test (20 to 2,000 Hz/20g)	20 minutes/12 times (3 axes)

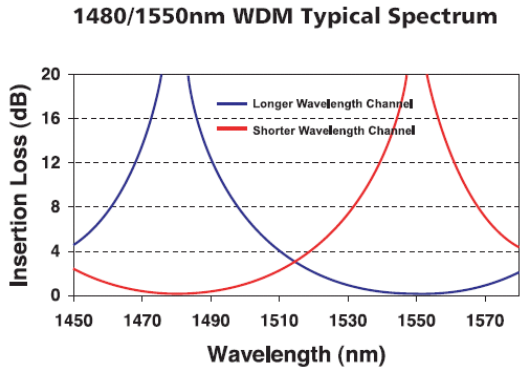
Ordering Information

H	W	D	M			0	0					
				Wavelength 1=980/1550nm 2=980/1590nm	Structure 1=1x2 2=2x2			Grade P=Premium A=A grade	Package 5=S6	Fiber Type 5=980-20 7=HI1060 FLEX 8=980-16	Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

1480/1550nm(1475/1558nm) Single Mode Fiber WDM



Product Features

- Moisture-Resistant
- Impact-Resistant
- Vibration-Resistant
- Compact Size

Product Applications

- Submarine Optical Amplifier
- Submarine Optical Module
- Terrestrial Optical Amplifier

Specifications			1480/1550nm		1475/1558nm	
Parameter		Unit	Premium	A grade	Premium	A grade
Shorter Wavelength Channel		nm	1480±5		1475±5	
Insertion Loss	Max.	dB	0.3	0.4	0.3	0.4
PDL	Max.	dB	0.1	0.15	0.1	0.15
Isolation @1550 or 1558±5nm	Min.	dB	15	13	15	13
Longer Wavelength Channel		nm	1550±5		1558±5	
Insertion Loss	Max.	dB	0.3	0.4	0.3	0.4
PDL	Max.	dB	0.1	0.15	0.1	0.15
Isolation @1480 or 1475±5nm	Max.	dB	15	13	15	13
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S9	Ø3x76: for bare fiber		

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	6,000 hours
Temperature Cycling (-40°C to 85°C)	1,000 cycles
Damp Heat Test (85°C /85%RH)	5,000 hours
Low Temperature Storage (-40°C)	6,000 hours
Impact Test (500g, 1ms)	8 times/each axes (3 axes)
Vibration Test (20 to 2,000 Hz/20g)	20 minutes/12 times (3 axes)

Ordering Information

H	W	D	M			0	0					
				Wavelength 7=1480/1550nm 9=1475/1558nm	Structure 1=1x2 2=2x2			Grade P=Premium A=A grade	Package 8=S9	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.

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1x3 Single Mode Narrowband Splitter

1x3 Cross Section

Product Features

- Moisture-Resistant
- Impact-Resistant
- Vibration-Resistant
- Compact Size

Product Applications

- Submarine Cable System
- Submarine Optical Amplifier
- Optical Communication System
- Terrestrial Backbone System
- Space Craft Sensing System

Specifications			Splitting Ratio:	33:33:33
Parameter		Unit	Premium	A grade
Port Configuration			1x3	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	5.4	5.7
Excess Loss	Typ.	dB	0.15	0.2
Uniformity	Max.	dB	0.8	1.2
PDL	Max.	dB	0.05	0.1
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	Ø3.5x54: for bare fiber	

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	6,000 hours
Temperature Cycling (-40°C to 85°C)	1,000 cycles
Damp Heat Test (85°C /85%RH)	5,000 hours
Low Temperature Storage (-40°C)	6,000 hours
Impact Test (500g, 1ms)	8 times/each axes (3 axes)
Vibration Test (20 to 2,000 Hz/20g)	20 minutes/12 times (3 axes)

Ordering Information

H	R	N	S										
				Wavelength 4=1550nm 5=1480nm 7=1310nm S=Specify	Structure 3=1x3	Splitting Ratio 33=33:33:33		Grade P=Premium A=A grade	Package 5= Ø 3.5x54mm	Fiber Type 1=G652 or Equivalent	Pigtail S=250µm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

Comcore's Single Mode Fiber WDMs Are Your Ultimate Choice

980/1035nm Single Mode Fiber WDM

Product Features

- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980/1035nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	980±3	
Insertion Loss	Max.	dB	0.4	0.6
PDL	Max.	dB	0.1	0.15
Isolation @ 1035±3 nm	Min.	dB	12	10
Longer Wavelength Channel		nm	1035±3	
Insertion Loss	Max.	dB	0.4	0.6
PDL	Max.	dB	0.1	0.15
Isolation @ 980±3 nm	Min.	dB	12	10
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9	Ø3x76: for bare fiber
			S10	Ø3x92: for 0.9mm loose tube
			M3	7.5x18x85: for 0.9mm loose tube or 2mm cable or 3mm cable

Ordering Information

W	D	M				0	0							
			Wavelength 0=980/1035nm	Structure 1=1x2 2=2x2				Grade P=Premium A=A grade	Package 8=S9 9=S10 F=M3	Fiber Type 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

980/1064nm Single Mode Fiber WDM

Product Features

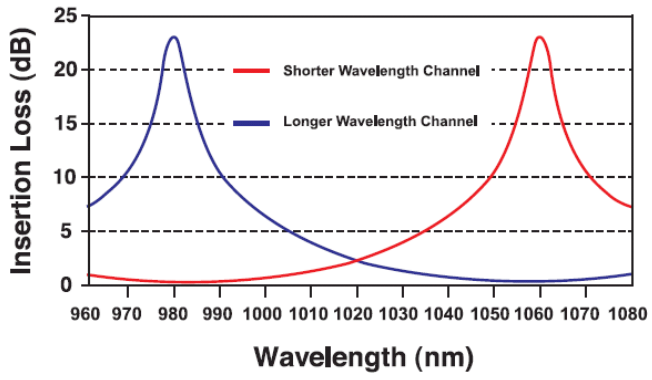
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980/1064nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	980±5	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1064±5 nm	Min.	dB	15	13
Longer Wavelength Channel		nm	1064±5	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 980±5 nm	Min.	dB	15	13
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9	Ø3x76: for bare fiber
			S10	Ø3x92: for 0.9mm loose tube
			M3	7.5x18x85: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

W	D	M			0	0							
			Wavelength C=980/1064nm	Structure 1=1x2 2=2x2			Grade P=Premium A=A grade	Package 8=S9 9=S10 F=M3	Fiber Type 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

980/1310nm Single Mode Fiber WDM

Product Features

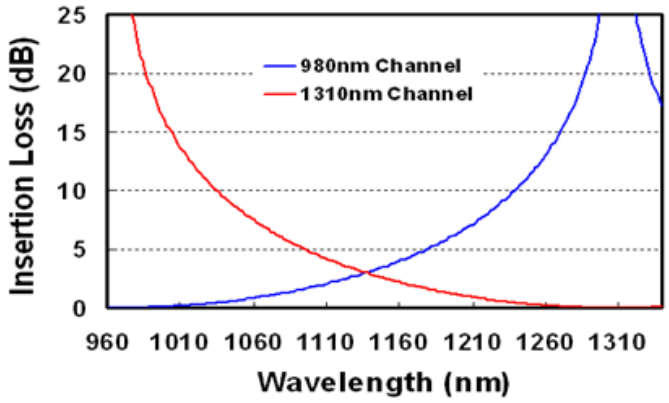
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier

Specifications			980/1310nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	980±10	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1310±15 nm	Min.	dB	18	18
Longer Wavelength Channel		nm	1310±15	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 980±10 nm	Min.	dB	18	16
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

W	D	M			0	0							

Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
4=980/1310nm	1=1x2 2=2x2	P=Premium A=A grade	5=S6 7=S8 D=M1	5=980-20 7=HI1060 FLEX 8=980-16	S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

980nm/C or L Band Compact WDM

Product Features

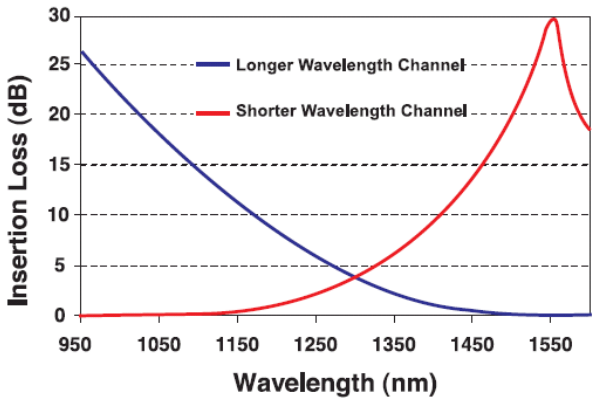
- Very Compact Size
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980nm/C or L Band	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	960 to 990	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.05	0.05
Isolation @ C or L band	Min.	dB	20	18
Longer Wavelength Channel		nm	C Band (1528 to 1565) or L Band (1570 to 1605)	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.05	0.05
Isolation @ 960 to 990 nm	Min.	dB	20	18
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S4	Ø3x35: for bare fiber
			S6	Ø3x54: for 0.9mm loose tube

980nm/C Band WDM Typical Spectrum



Ordering Information

S	W	D	M			0							
				Wavelength 1=980nm/ C Band 2=980nm/ L Band	Structure 1=1x2 2=2x2		Grade P=Premium A=A grade	Package 3=S4 5=S6	Fiber Type 5=980-20 7=HI1060 FLEX 8=980-16	Pigtail S=250μm bare fiber M=0.9mm loose tube	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1064/1310nm Single Mode Fiber WDM

Product Features

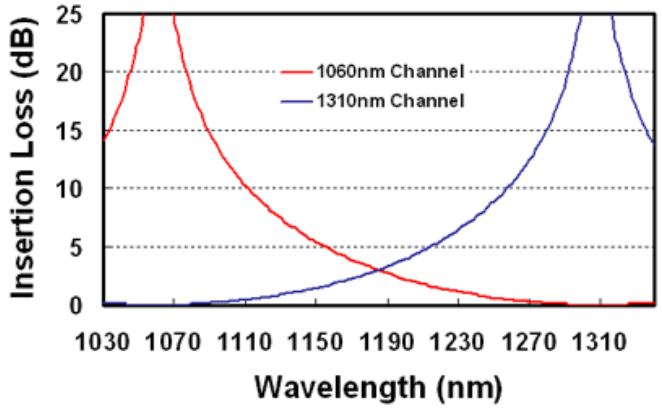
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier

Specifications			1064/1310nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	1064±15	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1310±15 nm	Min.	dB	17	16
Longer Wavelength Channel		nm	1310±15	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1064±15 nm	Min.	dB	17	16
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

W	D	M			0	0						

Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
G=1064/1310nm	1=1x2 2=2x2	P=Premium A=A grade	5=S6 7=S8 D=M1	5=980-20 7=HI1060 FLEX 8=980-16	S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1064/1550nm Single Mode Fiber WDM

Product Features

- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier

Specifications			1064/1550nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	1064±15	
Insertion Loss	Max.	dB	0.15	0.25
PDL	Max.	dB	0.02	0.1
Isolation @ 1530 to 1565 nm	Min.	dB	18	16
Longer Wavelength Channel		nm	1530 to 1565	
Insertion Loss	Max.	dB	0.15	0.25
PDL	Max.	dB	0.05	0.1
Isolation @ 1064±15 nm	Min.	dB	18	16
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S7	Ø3x60: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Ordering Information

W	D	M				0	0						
			Wavelength E=1064/1550nm	Structure 1=1x2 2=2x2				Grade P=Premium A=A grade	Package 6=S7 7=S8 D=M1	Fiber Type 5=980-20 7=HI1060 FLEX 8=980-16	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1310/1490/1550nm Single Mode Fiber WDM Module

Product Features

- Low PDL
- Low Insertion Loss
- High Isolation
- Stable and Reliable

Product Applications

- Passive Optical Network
- CATV System

Specifications			1310/1490/1550nm	
Parameter		Unit	Premium	A grade
1310nm Channel		nm	1310±5	
Insertion Loss	Max.	dB	0.6	0.7
PDL	Max.	dB	0.15	0.2
Isolation @ 1490±5 nm	Min.	dB	20	18
Isolation @ 1550±5 nm	Min.	dB	20	18
1490nm Channel		nm	1490±5	
Insertion Loss	Max.	dB	0.4	0.5
PDL	Max.	dB	0.15	0.2
Isolation @ 1310±5 nm	Min.	dB	13	11
Isolation @ 1550±5 nm	Min.	dB	13	11
1550nm Channel		nm	1550±5	
Insertion Loss	Max.	dB	0.6	0.7
PDL	Max.	dB	0.15	0.2
Isolation @ 1310±5 nm	Min.	dB	20	18
Isolation @ 1490±5 nm	Min.	dB	14	12
Operating power	Max.	W	5	
Operating Temperature		°C	-20 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	M6	18x115x141: for 0.9mm loose tube or 2mm cable or 3mm cable

Ordering Information

W	D	M			0	0							
			Wavelength H=1310/1490/1550nm	Structure 3=1x3			Grade P=Premium A=A grade	Package I=M6	Fiber Type 1=G652 or Equivalent	Pigtail M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1310/1490nm Single Mode Fiber WDM

Product Features

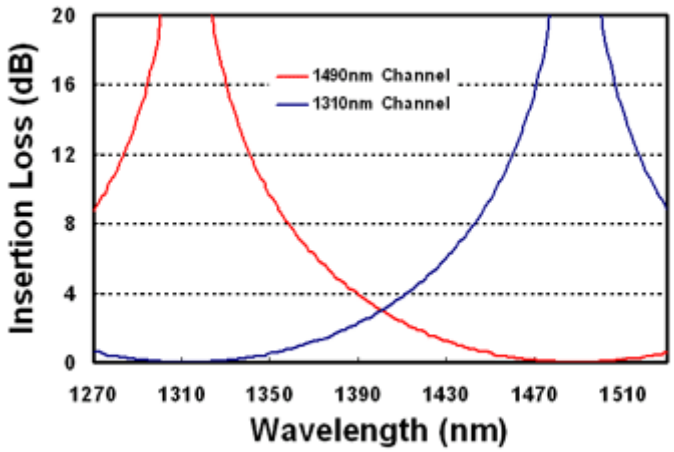
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- CATV System
- Passive Optical Network

Specifications			1310/1490nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	1310±10	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1490±10 nm	Min.	dB	17	16
Longer Wavelength Channel		nm	1490±10	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1310±10 nm	Min.	dB	17	16
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S13	Ø3x66: for bare fiber
			S9	Ø3x76: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

W	D	M			0	0						

Wavelength
D=1310/1490nm

Structure
1=1x2
2=2x2

Grade
P=Premium
A=A grade

Package
C=S13
8=S9
D=M1

Fiber Type
1=G652 or Equivalent

Pigtail
S=250μm bare fiber
M=0.9mm loose tube
L=3mm cable
R=2mm cable

Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
2=FC/SPC
3=FC/APC
4=SC/SPC
5=SC/APC
6=ST
7=FC/UPC
8=SC/UPC
9=MU
A=LC
B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1310/1550nm Single Mode Fiber WDM

Product Features

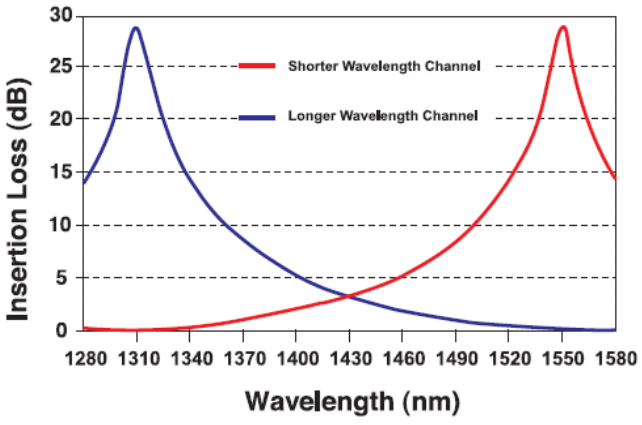
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- CATV System
- Passive Optical Network

Specifications			1310/1550nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	1310±15	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1550±15 nm	Min.	dB	17	16
Longer Wavelength Channel		nm	1550±15	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1310±15 nm	Min.	dB	17	16
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

W	D	M			0	0							
			Wavelength 5=1310/1550nm	Structure 1=1x2 2=2x2			Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1310/1550nm WDM Module with High Isolation

Product Features

- Ultra-High Isolation
- Low PDL
- Low Insertion Loss
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- CATV System

Specifications			1310/1550nm	
Parameter		Unit	High Isolation	Ultra-High Isolation
Shorter Wavelength Channel		nm	1310±15	
Insertion Loss	Max.	dB	0.7	1.0
PDL	Max.	dB	0.1	0.15
Isolation @ 1550±15 nm	Min.	dB	34	45
Longer Wavelength Channel		nm	1550±15	
Insertion Loss	Max.	dB	0.7	1.0
PDL	Max.	dB	0.1	0.15
Isolation @ 1310±15 nm	Min.	dB	34	45
Operating power	Max.	W	5	
Operating Temperature		°C	-20 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	M5	10x80x100: for 0.9mm loose tube or 2mm cable or 3mm cable

Ordering Information

W	D	M				0	0						

	Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
	5=1310/1550nm	1=1x2 2=2x2	H=High Isolation U=Ultra-High Isolation	H=M5	1=G652 or Equivalent	M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1480/1550nm(1480/1590nm) Single Mode Fiber WDM

Product Features

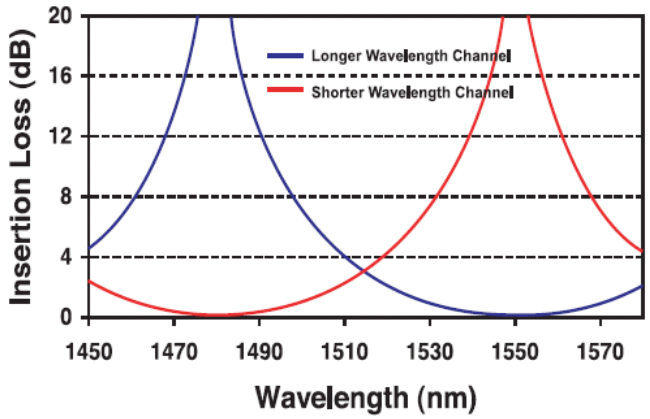
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			1480/1550nm		1480/1590nm	
Parameter		Unit	Premium	A grade	Premium	A grade
Shorter Wavelength Channel		nm	1480±5		1480±5	
Insertion Loss	Max.	dB	0.3	0.4	0.3	0.4
PDL	Max.	dB	0.1	0.15	0.1	0.15
Isolation@1550 or 1590±5 nm	Min.	dB	15	13	17	15
Longer Wavelength Channel		nm	1550±5		1590±5	
Insertion Loss	Max.	dB	0.3	0.4	0.3	0.4
PDL	Max.	dB	0.1	0.15	0.1	0.15
Isolation@1480±5 nm	Min.	dB	15	13	17	15
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S9	Ø3x76: for bare fiber		
			S10	Ø3x92: for 0.9mm loose tube		
			M5	10x80x100: for 0.9mm loose tube or 2mm cable or 3mm cable		

1480/1550nm WDM Typical Spectrum



Ordering Information

W	D	M			0	0							
			Wavelength 7=1480/1550nm 8=1480/1590nm	Structure 1=1x2 2=2x2			Grade P=Premium A=A grade	Package 8=S9 9=S10 H=M5	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1550/1625nm Single Mode Fiber WDM

Product Features

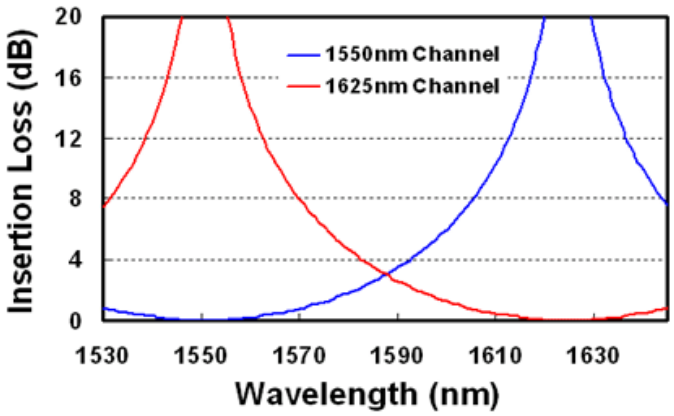
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- CATV System
- Optical Fiber Sensor

Specifications			1550/1625nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	1550±5	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1625±5 nm	Min.	dB	15	13
Longer Wavelength Channel		nm	1625±5	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 1550±5 nm	Min.	dB	15	13
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S9	Ø3x76: for bare fiber
			S10	Ø3x92: for 0.9mm loose tube
			M3	7.5x18x85: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

W	D	M			0	0							
			Wavelength 6=1550/1625nm	Structure 1=1x2 2=2x2			Grade P=Premium A=A grade	Package 8=S9 9=S10 F=M3	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

980-20 or HI1060 Flex Fiber 980nm/C or L Band WDM

Product Features

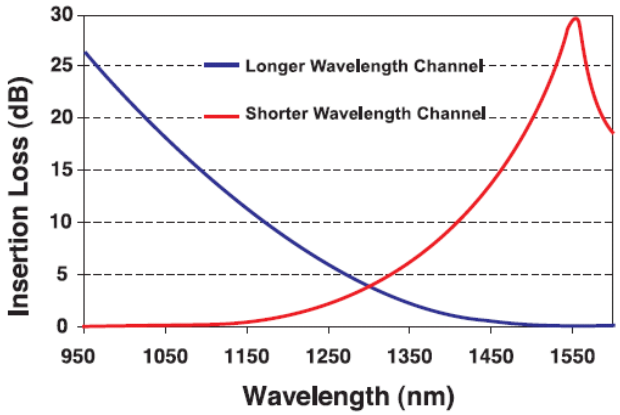
- Ultra-Low PDL
- Ultra-Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980nm/C or L Band	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	960 to 990	
Insertion Loss	Max.	dB	0.1	0.2
PDL	Max.	dB	0.01	0.02
Isolation @ C or L band	Min.	dB	20	18
Longer Wavelength Channel		nm	C Band (1528 to 1565) or L Band (1570 to 1605)	
Insertion Loss	Max.	dB	0.1	0.2
PDL	Max.	dB	0.01	0.02
Isolation @ 960 to 990 nm	Min.	dB	20	18
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

980nm/C Band WDM Typical Spectrum



Ordering Information

W	D	M			0	0							
			Wavelength 1=980nm/ C Band 2=980nm/ L Band	Structure 1=1x2 2=2x2			Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 5=980-20 7=HI1060 Flex	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

980-20 Fiber 980nm/C+L Band WDM

Product Features

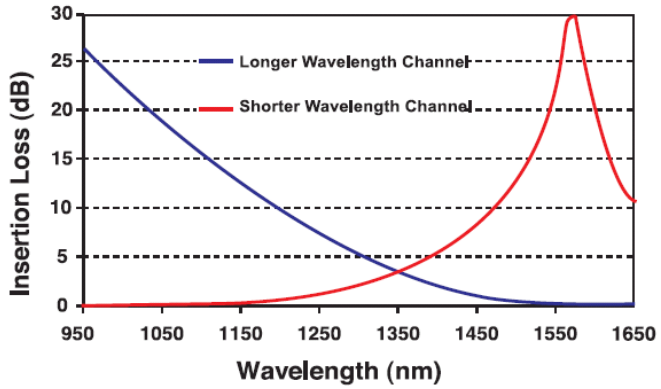
- Ultra-Low PDL
- Ultra-Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980nm/C + L Band	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	960 to 990	
Insertion Loss	Max.	dB	0.1	0.2
PDL	Max.	dB	0.01	0.02
Isolation @ C + L band	Min.	dB	15	14
Longer Wavelength Channel		nm	C+L Band (1528 to 1605)	
Insertion Loss	Max.	dB	0.15	0.25
PDL	Max.	dB	0.02	0.03
Isolation @ 960 to 990 nm	Min.	dB	20	18
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

W	D	M			0	0						

Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
3=980nm/ C+L Band	1=1x2 2=2x2	P=Premium A=A grade	5=S6 7=S8 D=M1	5=980-20	S=250µm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

980-16 Fiber 980nm/C or L Band WDM

Product Features

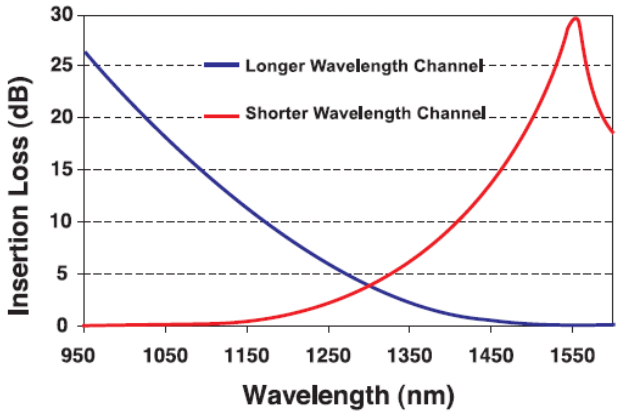
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980nm/C or L Band	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	960 to 990	
Insertion Loss	Max.	dB	0.1	0.2
PDL	Max.	dB	0.05	0.05
Isolation @ C or L band	Min.	dB	20	18
Longer Wavelength Channel		nm	C Band (1528 to 1565) or L Band (1570 to 1605)	
Insertion Loss	Max.	dB	0.1	0.2
PDL	Max.	dB	0.05	0.05
Isolation @ 960 to 990 nm	Min.	dB	20	18
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

980nm/C Band WDM Typical Spectrum



Ordering Information

W	D	M			0	0							
			Wavelength 1=980nm/ C Band 2=980nm/ L Band	Structure 1=1x2 2=2x2			Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 8=980-16	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

980-16 Fiber 980nm/C+L Band WDM

Product Features

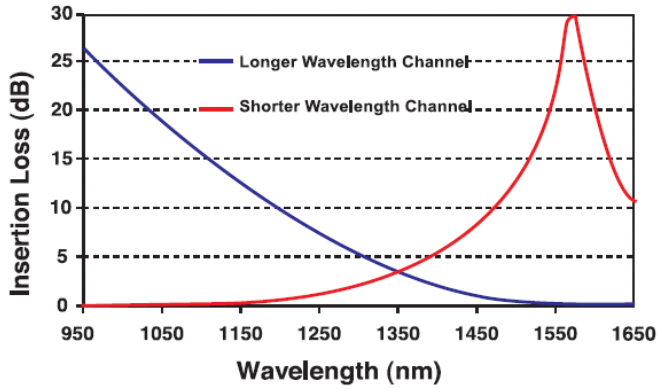
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980nm/C + L Band	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	960 to 990	
Insertion Loss	Max.	dB	0.1	0.2
PDL	Max.	dB	0.05	0.05
Isolation @ C + L band	Min.	dB	15	14
Longer Wavelength Channel		nm	C+L Band (1528 to 1605)	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.05	0.05
Isolation @ 960 to 990 nm	Min.	dB	20	18
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

W	D	M			0	0						

Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
3=980nm/ C+L Band	1=1x2 2=2x2	P=Premium A=A grade	5=S6 7=S8 D=M1	8=980-16	S=250µm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

Hybrid (Dissimilar) Fiber 980nm/C or L Band WDM

Product Features

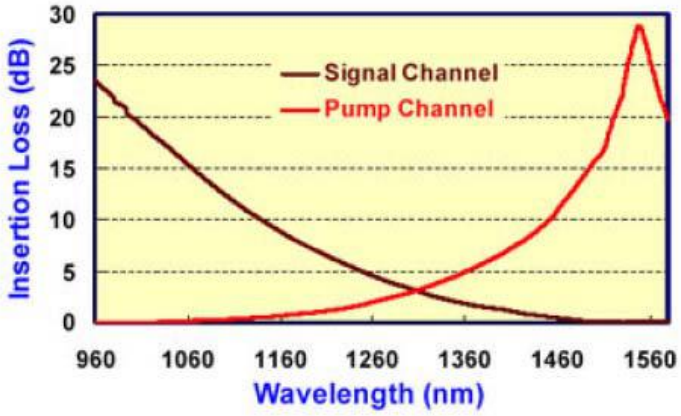
- Low PDL
- Low Insertion Loss
- High Isolation and High Return Loss
- SMF28e Fiber at Signal Port
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980nm/C or L Band	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	960 to 990	
Insertion Loss	Max.	dB	0.1	0.2
PDL	Max.	dB	0.01	0.02
Isolation @ C or L band	Min.	dB	20	18
Longer Wavelength Channel		nm	C Band (1528 to 1565) or L Band (1570 to 1605)	
Insertion Loss	Max.	dB	0.15	0.25
PDL	Max.	dB	0.01	0.02
Isolation @ 960 to 990 nm	Min.	dB	20	18
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

980nm/C Band WDM Typical Spectrum



Ordering Information

W	D	M			0	1							
			Wavelength 1=980nm/ C Band 2=980nm/ L Band	Structure 1=1x2 2=2x2		Fiber Type (Signal port) 1=G652 or Equivalent	Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type (Pump to common port) 5=980-20 7=HI1060FLEX 8=980-16	Pigtail S=250µm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2 (2x2) 635/1064nm Single Mode Fiber WDM

Product Features

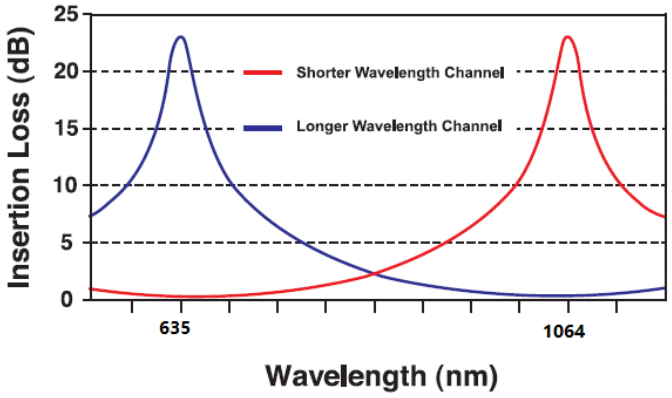
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module
- Fiber Laser

Specifications			635/1064nm (630-HP fiber)		635/1064nm (Hi1060 fiber)	
Parameter		Unit	Premium	A grade	Premium	A grade
Shorter Wavelength Channel		nm	635±5			
Insertion Loss	Max.	dB	0.7	0.9	1.0	1.2
PDL	Max.	dB	0.2	0.25	0.2	0.25
Isolation @ 1064±5 nm	Min.	dB	20	18	20	18
Longer Wavelength Channel		nm	1064±5			
Insertion Loss	Max.	dB	1.0	1.2	0.5	0.7
PDL	Max.	dB	0.2	0.25	0.2	0.25
Isolation @ 635±5 nm	Min.	dB	18	16	18	16
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S9	Ø3x76: for bare fiber		
			S10	Ø3x92: for 0.9mm loose tube		
			M3	7.5x18x85: for 0.9mm loose tube or 2mm cable or 3mm cable		

Typical Spectrum



Ordering Information

W	D	M			0	0						

Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
B=635/1064nm S=Specify	1=1x2 2=2x2	P=Premium A=A grade	8=S9 9=S10 F=M3	A=630-HP 6=Hi1060	S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC B=SC/PC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

80/165μm 980-20 Fiber 980nm/C or L Band Compact WDM

Product Features

- Very Compact Size
- Low PDL
- Low Insertion Loss
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980nm/C or L Band	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	960 to 990	
Insertion Loss	Max.	dB	0.4	0.5
PDL	Max.	dB	0.05	0.05
Isolation @ C or L band	Min.	dB	20	18
Longer Wavelength Channel		nm	C Band (1528 to 1565) or L Band (1570 to 1605)	
Insertion Loss	Max.	dB	0.4	0.5
PDL	Max.	dB	0.05	0.05
Isolation @ 960 to 990 nm	Min.	dB	20	18
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S4	Ø3x35: for bare fiber
			S6	Ø3x54: for 0.9mm loose tube

Ordering Information

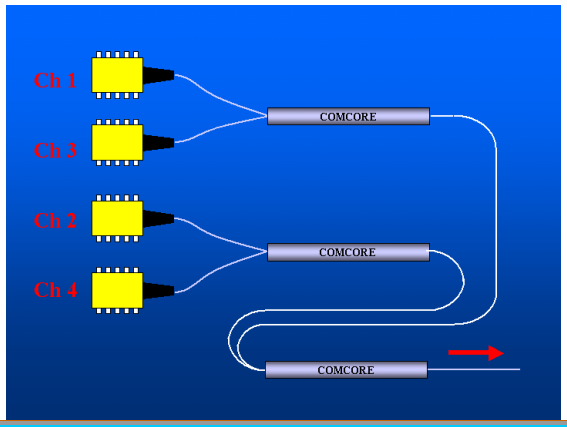
S	W	D	M			0							
				Wavelength 1=980nm/ C Band 2=980nm/ L Band	Structure 1=1x2 2=2x2		Grade P=Premium A=A grade	Package 3=S4 5=S6	Fiber Type N=80/165μm 980-20	Pigtail F=165μm bare fiber M=0.9mm loose tube	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE


Comcore's Fused Wavelength
Combiners Change Your Conception

14xx Four-Channel Wavelength Pump Combiner



Product Features

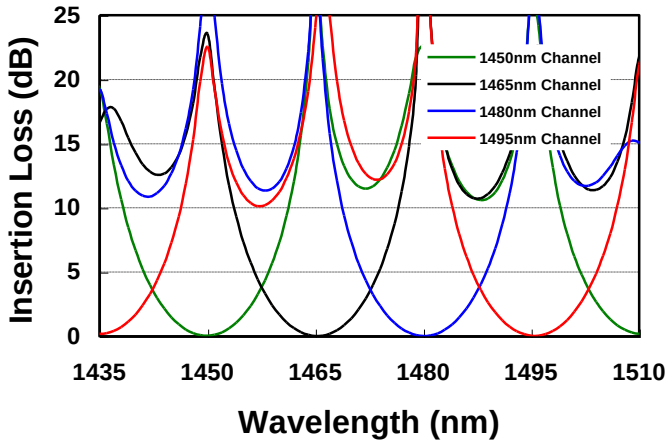
- Superfused Allfiber Approach
- Very Low Insertion Loss
- Low Polarization Dependent Loss
- High Power Handling
- Ultra-High Reliability

Product Applications

- High Power Sources
- Optical Amplifiers
- Optical Instrument

Parameters			Specifications	
Channel Space		nm	10 to 20	
Channel Bandwidth		nm	2	
Insertion Loss	Max.	dB	0.8	
Polarization Dependent Loss	Max	dB	0.2	
Isolation	Min.	dB	14	
Operating power	Max.	mW	1000	
Operating Temperature		°C	-10 to +70	
Storage Temperature		°C	-40 to +85	
Package Type		mm	S10	Ø3x92: for bare fiber

Typical Spectrums for 1450/1465/1480/1495nm Combiner



Ordering Information

W	P	C	4									

Starting Wavelength
00=1400nm
01=1401nm
02=1402nm
…
…
40=1440nm
41=1441nm
…
…
78=1478nm
79=1479nm
80=1480nm

Channel Space
10=10nm
11=11nm
12=12nm
…
…
15=15nm
16=16nm
…
…
18=18nm
19=19nm
20=20nm

Package
9=S10

Fiber Type
1=G652 or Equivalent

Pigtail
S=250μm bare fiber

Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
3=FC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

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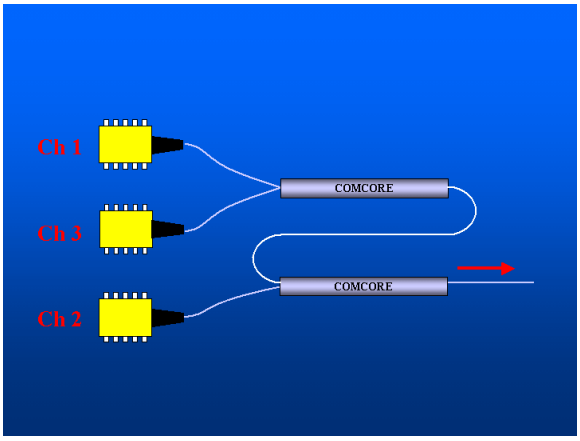
14xx Three-Channel Wavelength Pump Combiner



Product Features

- Superfused Allfiber Approach
- Very Low Insertion Loss
- Low Polarization Dependent Loss
- High Power Handling
- Ultra-High Reliability

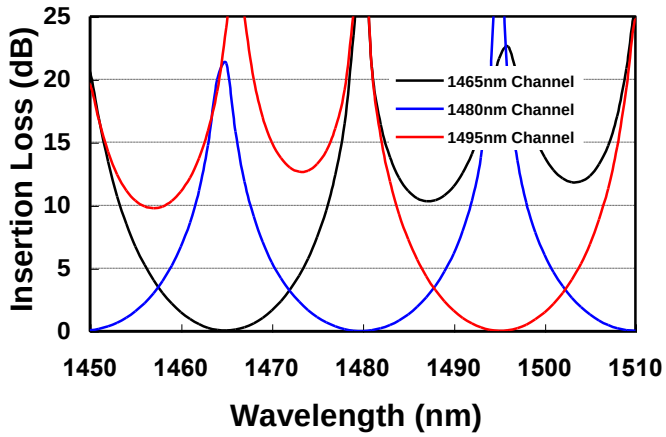
Product Applications

- High Power Sources
- Optical Amplifiers
- Optical Instrument

Parameters			Specifications	
Channel Space		nm	10 to 19	20 to 30
Channel Bandwidth		nm	2	3
Insertion Loss for Channel 1 and 3*	Max.	dB	0.8	
Insertion Loss for Channel 2	Max.	dB	0.4	
Polarization Dependent Loss	Max	dB	0.2	
Isolation	Min.	dB	14	
Operating power	Max.	mW	1000	
Operating Temperature		°C	-10 to +70	
Storage Temperature		°C	-40 to +85	
Package Type		mm	S10	Ø3x92: for bare fiber

** Channel1 and 3 are the shortest and the longest wavelength Channels, individually.*

Typical Spectrums for 1465/1480/1495nm Combiner



Ordering Information

W	P	C	3										

Starting Wavelength
00=1400nm
01=1401nm
02=1402nm
…
…
50=1450nm
51=1451nm
…
…
78=1478nm
79=1479nm
80=1480nm

Channel Space
10=10nm
11=11nm
12=12nm.
…
15=15nm
…
19=19nm.
20=20nm
…
25=25nm
26=26nm
…
29=29nm
30=30nm

Package
9=S10

Fiber Type
1=G652 or Equivalent

Pigtail
S=250μm bare fiber

Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
3=FC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

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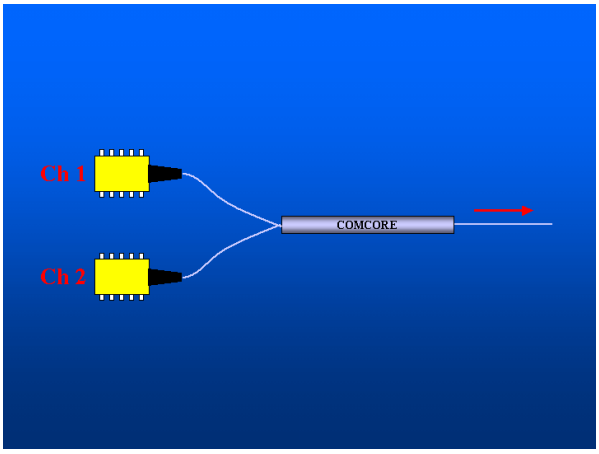
14xx Two-Channel Wavelength Pump Combiner



Product Features

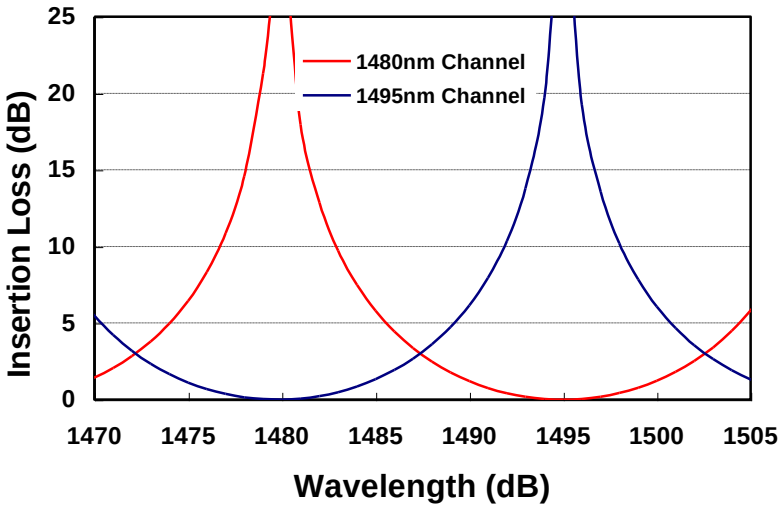
- Super Fused All fiber Approach
- Very Low Insertion Loss
- Low Polarization Dependent Loss
- High Power Handling
- Ultra-High Reliability

Product Applications

- High Power Sources
- Optical Amplifiers
- Optical Instrument

Parameters		Specifications			
Channel Space		nm	10 to 19	20 to 29	30 to 40
Channel Bandwidth		nm	2	3	4
Insertion Loss	Max.	dB	0.3		
PDL	Max.	dB	0.2		
Isolation	Min.	dB	14		
Operating power	Max.	mW	1000		
Operating Temperature		°C	-10 to +70		
Storage Temperature		°C	-40 to +85		
Package Type		mm	S10	Ø3x92: for bare fiber	

Typical Spectrums for 1480/1495nm Combiner



Ordering Information

W	P	C	2										

Starting Wavelength
00=1400nm
01=1401nm
02=1402nm
…
…
50=1450nm
51=1451nm
…
…
87=1487nm
88=1488nm
89=1489nm

Channel Space
10=10nm
11=11nm
12=12nm
…
…
15=15nm
16=17nm
17=17nm
…
…
38=38nm
39=39nm
40=40nm

Package
9=S10

Fiber Type
1=G652 or Equivalent

Pigtail
S=250μm bare fiber

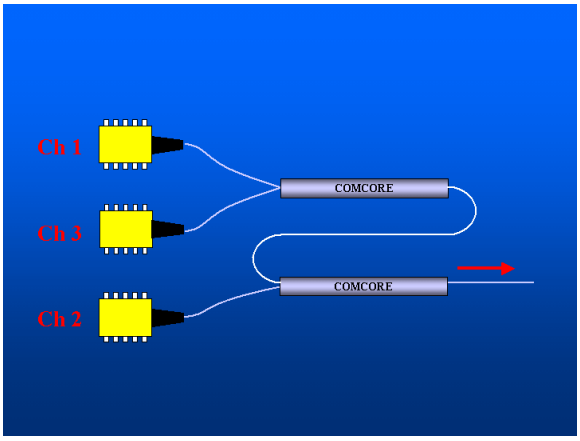
Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
3=FC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

RGB Three-Channel Wavelength Combiner



Product Features

- Super-fused All fiber Approach
- Very Low Insertion Loss
- Low Polarization Dependent Loss
- High Power Handling
- Ultra-High Reliability

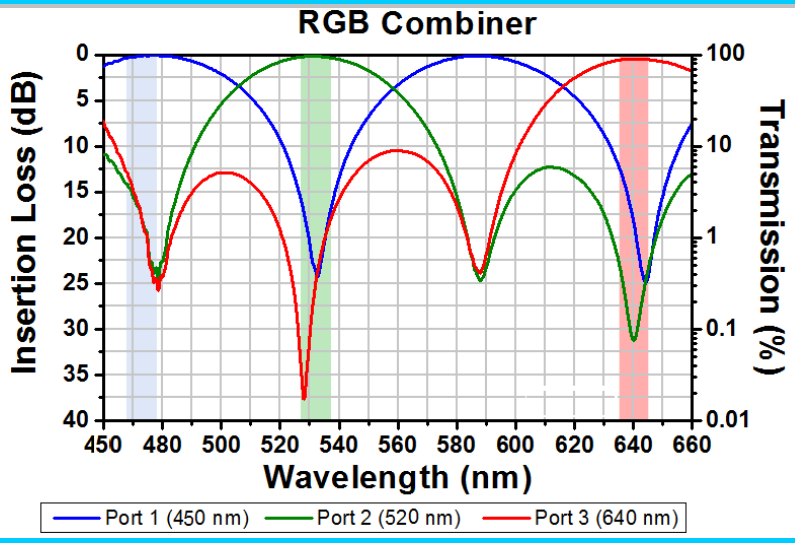
Product Applications

- Fluorescence Microscopy
- Laser Display
- VR/AR(Virtual Reality)
- Optical Instrument

Parameters			Specifications		
Channel Wavelength		nm	450(Ch1)	520(Ch2)	640(Ch3)
Bandwidth		nm	± 5		
Insertion Loss for Channel 1 and 3*	Max.	dB	0.9		
Insertion Loss for Channel 2	Max.	dB	0.8		
Polarization Dependent Loss	Max	dB	0.2		
Isolation	Min.	dB	18		
Operating power	Max.	mW	1000		
Operating Temperature		°C	-10 to +70		
Storage Temperature		°C	-40 to +85		
Package Type		mm	S9	Ø3x76: for bare fiber	
			S10	Ø3x92: for 0.9mm loose tube	
			M5	100x80x10: for 0.9mm loose tube, 2mm cable or 3mm cable	

** Channel1 and 3 are the shortest and the longest wavelength Channels, individually.*

Typical Spectrums for 450/520/640nm Combiner



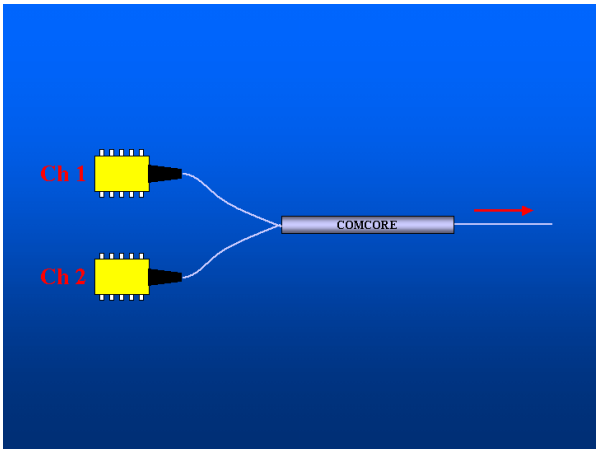
Ordering Information

W	P	C	3				0					

Starting Wavelength	Package	Fiber Type	Pigtail	Fiber Length	Connector
RGB=450,520,640 RGP=405,532,650	8=S9 9=S10 H=M5	C=460-HP D=405-HP	S=250μm bare fiber M=0.9mm Loos tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4==2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

RB GB RG Two-Channel Wavelength Combiner



Product Features

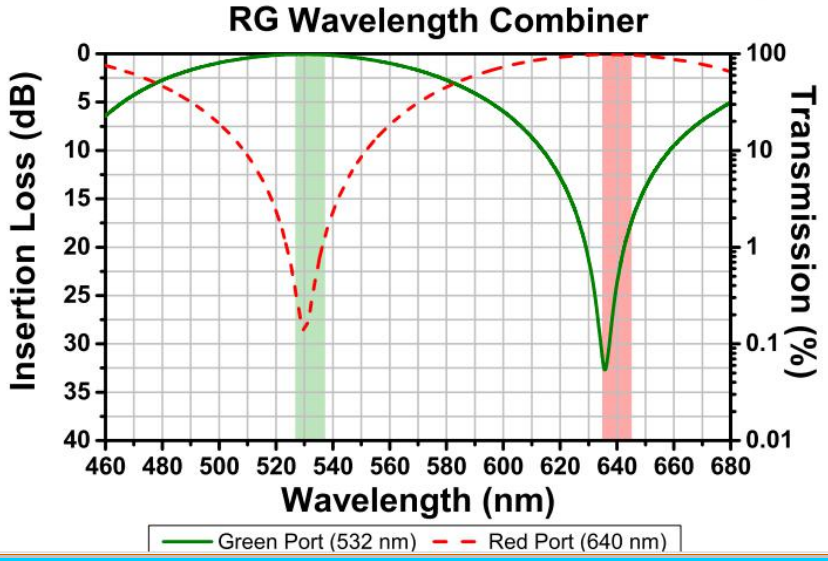
- Super fused All fiber Approach
- Very Low Insertion Loss
- Low Polarization Dependent Loss
- High Power Handling
- Ultra-High Reliability

Product Applications

- Fluorescence Microscopy
- Laser Display
- VR/AR(Virtual Reality)
- Optical Instrument

Parameters			Specifications	
Channel Space		nm	532	640
Bandwidth		nm	± 5	
Insertion Loss	Max.	dB	0.9	
PDL	Max.	dB	0.2	
Isolation	Min.	dB	20	
Operating power	Max.	mW	1000	
Operating Temperature		°C	-10 to +70	
Storage Temperature		°C	-40 to +85	
Package Type		mm	S9	Ø3x76: for bare fiber
		mm	S10	Ø3x92: for 0.9mm loose tube
		mm	M5	10x80x100: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrums for 532/640nm Combiner



Ordering Information

W	P	C	2			0	0					

Starting Wavelength
RB=450nm,640nm
BG=450nm,532nm
RG=532nm,640nm

Package
8=S9
9=S10
H=M5

Fiber Type
C=460-HP
B=630-HP

Pigtail
S=250μm bare fiber
M=0.9mm loose tube
L=3mm cable
R=2mm cable

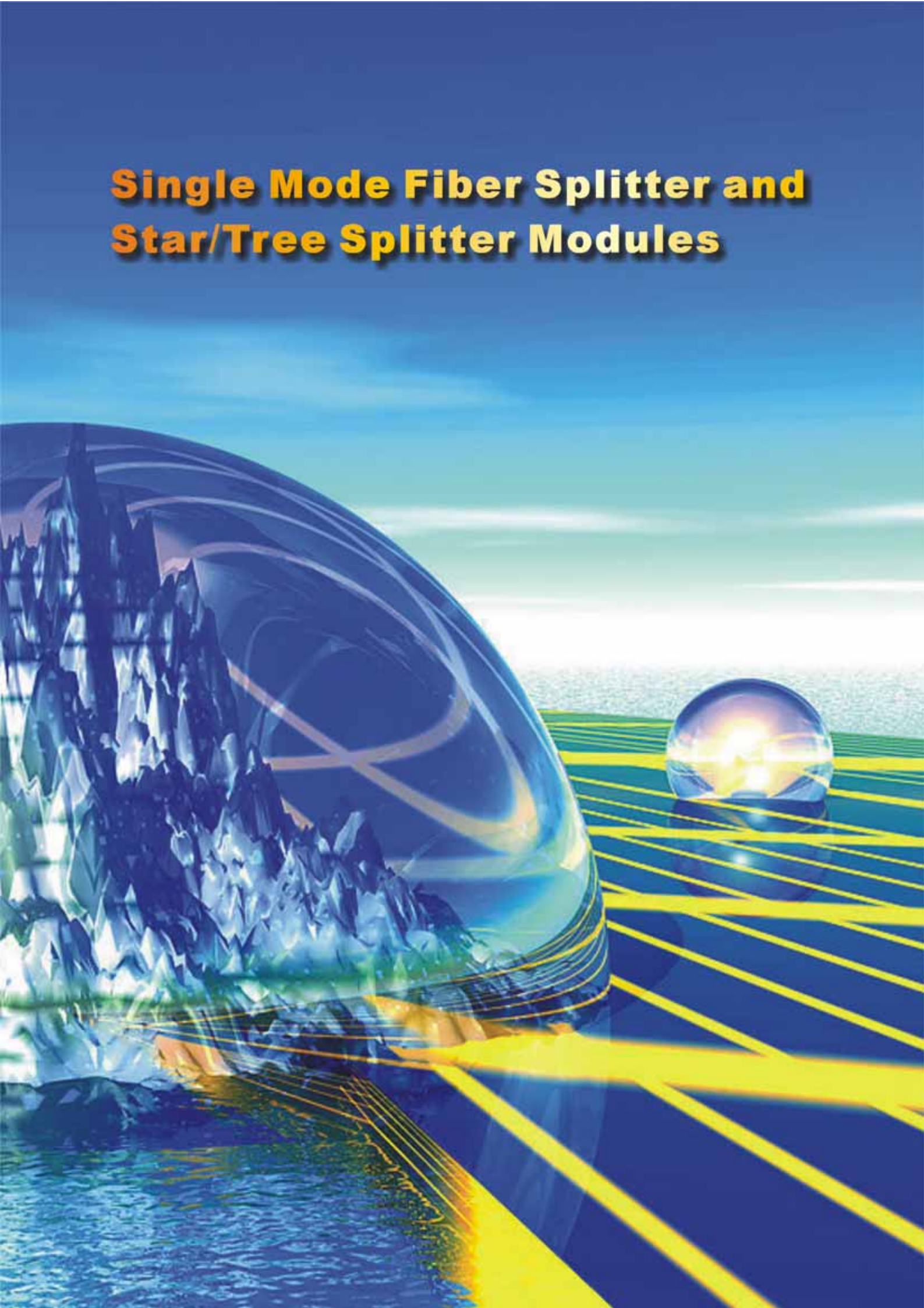
Fiber Length
0=0.5m
1=0.75m
2=1.0m
3=1.5m
4=2.0m
S=Specify

Connector
0=None
1=FC/PC
2=FC/SPC
3=FC/APC
4=SC/SPC
5=SC/APC
6=ST
7=FC/UPC
8=SC/UPC
9=MU
A=LC/PC
B=SC/PC
C=LC/UPC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

Single Mode Fiber Splitter and Star/Tree Splitter Modules



1x2(2x2) 80μm Fiber Single Mode Narrowband Splitter

Product Features

- Very Compact Size
- Low Insertion Loss
- Low PDL
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±20	
Insertion Loss	Max.	dB	3.5	3.6
Excess Loss	Typ.	dB	0.1	0.15
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.05	0.1
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S2	Ø3x25.4: for bare fiber
			S4	Ø3x35: for 0.9mm loose tube

Ordering Information

S	N	S												
			Wavelength 4=1550nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 50=50:50		Grade P=Premium A=A grade	Package 1=S2 3=S4	Fiber Type T=80/165μm G652 core diameter 8μm Y=80/165μm G652 core diameter 6μm D=80/165μm 980-20		Pigtail F=165μm bare fiber M=0.9mm loose tube	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Mini Single Mode Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Fiber Gyroscope
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor
- EDFA Module

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Central Wavelength		nm	1270~2000	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	3.5	3.6
Excess Loss	Typ.	dB	0.15	0.25
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S1	Ø2.4x25: for bare fiber

Ordering Information

C	B	S											
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 50=50:50		Grade P=Premium A=A grade	Package 0=S1	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

1x2(2x2) Compact Single Mode Broadband Splitter

Product Features

- Very Compact Size
- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	3.4	3.7
Excess Loss	Typ.	dB	0.1	0.15
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S4	Ø3x35: for bare fiber
			S5	Ø3x40: for 0.9mm loose tube
			S6	Ø3x54: for 0.9mm loose tube

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.7	3.7
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.2	7.5	1.3	8.0
90:10	0.6	10.8	0.8	12
95:5	0.4	14.6	0.5	18.4
96:4	0.35	16.0	0.45	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.25	19.0	0.35	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

Ordering Information

C	B	S												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 3=S4 4=S5 5=S6	Fiber Type 1=G652 or Equivalent 2=SM 1950		Pigtail S=250μm bare fiber M=0.9mm loose tube	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) Compact Single Mode Narrowband Splitter

Product Features

- Very Compact Size
- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±20	
Insertion Loss	Max.	dB	3.5	3.7
Excess Loss	Typ.	dB	0.1	0.15
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S1	Ø2.4x25 for bare fiber
			S3	Ø3x30 for bare fiber
			S5 or S6	Ø3x40 or Ø3x54 for 0.9mm loose tube

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.5	3.5	3.7	3.7
60:40	2.7	4.5	2.8	4.8
70:30	2.0	5.8	2.0	6.1
80:20	1.25	7.7	1.3	8.0
90:10	0.7	11.2	0.8	12
95:5	0.45	14.6	0.5	18.4
96:4	0.38	16.0	0.45	19.0
97:3	0.35	17.5	0.4	19.5
98:2	0.30	19.0	0.35	20.0
99:1	0.25	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

Ordering Information

C	N	S												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm K=830nm L=780nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 0=S1 2=S3 4=S5 5=S6	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM1950 L=Large mode area fiber	Pigtail S=250μm bare fiber M=0.9mm loose tube	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2 PDL-Free 50/50 Broadband Splitter

Product Features

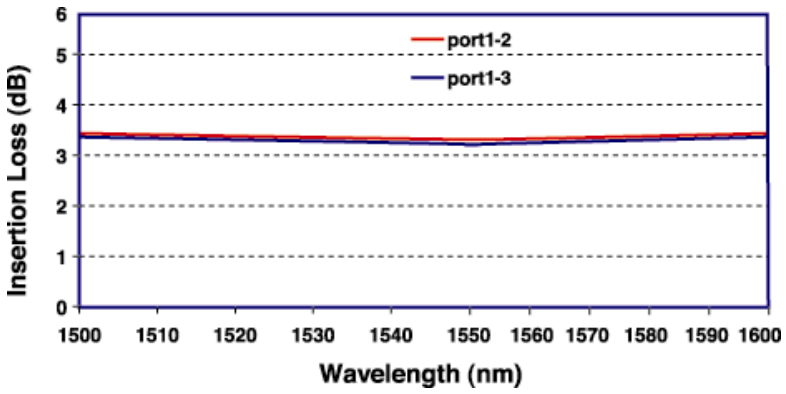
- PDL-Free
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.5	0.8
PDL	Max.	dB	0.01	0.02
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S5 or S6	Ø3x40 or Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

N	B	S											

Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm P=2000nm S=Specify	1=1x2	50=50:50	P=Premium A=A grade	4=S5 5=S6 7=S8 D=M1	1=G652 or Equivalent H=SM1950	S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) Single Mode Allwavelength-Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- Ultra-Broadband
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Passive Optical Network
- FTTx

Specifications			Splitting Ratio: 50:50	
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	1270 to 1605	
Insertion Loss	Max.	dB	3.6	4.0
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.8	1.2
PDL	Max.	dB	0.15	0.20
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Max.IL excludes 1385±20nm wavelength.

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.6	3.6	4.0	4.0
60:40	2.7	4.8	2.9	5.1
70:30	2.0	6.2	2.2	6.6
80:20	1.3	8.0	1.5	8.5
90:10	0.6	11.5	0.8	12.9
95:5	0.4	15.6	0.5	19.2
98:2	0.3	20	0.4	21.5
99:1	0.3	24	0.4	24.6

Ordering Information

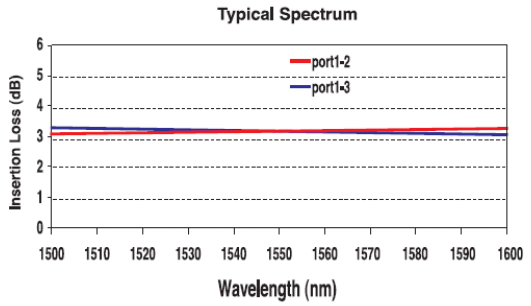
A	B	S											

Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
H=1270 to 1605nm	1=1x2 2=2x2	99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50	P=Premium A=A grade	5=S6 7=S8 D=M1	1=G652 or Equivalent	S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) Single Mode Broadband Splitter



Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S5 or S6	Ø3x40 or Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.2	7.5	1.3	8.0
90:10	0.6	10.8	0.8	12.0
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

Ordering Information

S	B	S												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 … 50=50:50		Grade P=Premium A=A grade	Package 4=S5 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent H=SM1950		Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) Single Mode Narrowband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor
- EDFA Module

Specifications

Splitting Ratio: 50:50

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	780~2000		532~685	
Bandwidth		nm	±20		±10	
Insertion Loss	Max.	dB	3.4	3.6	3.6	3.8
Excess Loss	Typ.	dB	0.07	0.1	0.1	0.2
Uniformity	Max.	dB	0.6	1.0	1.0	1.4
PDL	Max.	dB	0.1	0.15	0.15	0.2
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S5 or S6	Ø3x40 or Ø3x54: for bare fiber		
			S8	Ø3x70: for 0.9mm loose tube		
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable		

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)							
	Premium (780~2000nm)		A grade (780~2000nm)		P grade (532~685nm)		A grade (532~685nm)	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6	3.6	3.6	3.8	3.8
60:40	2.5	4.4	2.8	4.8	2.8	4.8	3.1	5.0
70:30	1.8	5.6	2.0	6.1	2.0	6.1	2.4	6.2
80:20	1.2	7.5	1.3	8.0	1.3	8.0	1.8	8.0
90:10	0.6	10.8	0.8	12.0	0.8	12.0	1.3	11.0
95:5	0.4	14.6	0.5	18.4	0.5	18.4	1.1	14.5
96:4	0.3	16.0	0.4	19.0	0.4	19.0	1.05	15.0
97:3	0.3	17.5	0.4	19.5	0.4	19.5	0.95	16.5
98:2	0.2	19.0	0.3	20.0	0.3	20.0	0.9	18.0
99:1	0.2	21.5	0.3	22.0	0.3	22.0	0.9	21.0
99.5:0.5	0.2	23.0	0.3	24.0	0.3	24.0	0.9	24.0

Ordering Information

S	N	S											
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm K=830nm L=780nm F=685nm E=650nm B=633nm C=532nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 ... 50=50:50		Grade P=Premium A=A grade	Package 4=S5 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C A=630-HP B=460-HP H=SM1950 L=Large mode area fiber	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) 405nm(450nm) Single Mode Narrowband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Medical System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor
- Optogenetics Research

Specifications

Parameter		Unit	Splitting Ratio: 50:50 Premium	Premium
Port Configuration			1x2 or 2x2	
Central Wavelength		nm	405	450
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	5.6	3.8
Excess Loss	Typ.	dB	2.0	0.6
Uniformity	Max.	dB	0.6	1.4
PDL	Max.	dB	0.1	0.2
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S5 or S6	Ø3x40 or Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

All specifications are based on 1m fiber length, every 0.5m-length of fiber can cause 0.5dB IL additionally.

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Output Port 1 (405nm)	Output Port 2 (405nm)	Output Port 1 (450nm)	Output Port 2 (450nm)
50:50	5.6	5.6	3.8	3.8
60:40	4.2	6.2	3.1	5.0
70:30	3.5	7.3	2.4	6.2
80:20	3.0	9.1	1.8	8.0
90:10	2.5	12.2	1.3	11.0
95:5	2.3	15.2	1.1	14.5
96:4	2.2	16.0	1.05	15.0
97:3	2.15	17.5	0.95	16.5
98:2	2.1	19.0	0.9	18.0
99:1	2.1	23.0	0.9	21.0
99.5:0.5	2.0	25.0	0.9	24.0

Ordering Information

S	N	S											
			Wavelength D=450nm Q=405nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 … 50=50:50		Grade P=Premium	Package 4=S5 5=S6 7=S8 D=M1	Fiber Type B=460-HP C=405-HP	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Single Mode Dual-Window Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio: 50:50	
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	1310±40 and 1550±40	
Insertion Loss	Max.	dB	3.6	3.9
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.8	1.2
PDL	Max.	dB	0.15	0.20
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.6	3.6	3.9	3.9
60:40	2.7	4.7	2.9	5.0
70:30	1.9	6.0	2.1	6.4
80:20	1.2	7.9	1.4	8.5
90:10	0.6	11.3	0.8	12.7
95:5	0.4	15.2	0.5	18.9
98:2	0.3	19.8	0.4	21
99:1	0.3	23.5	0.4	24

Ordering Information

D	B	S												
			Wavelength 0=1310&1550nm	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) Single Mode Triple-Window Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Passive Optical Network

Specifications			Splitting Ratio: 50:50	
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	1310±40 and 1490±20 and 1550±20	
Insertion Loss	Max.	dB	3.6	3.9
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.8	1.2
PDL	Max.	dB	0.15	0.20
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.6	3.6	3.9	3.9
60:40	2.7	4.7	2.9	5.0
70:30	1.9	6.0	2.1	6.4
80:20	1.2	7.9	1.4	8.5
90:10	0.6	11.3	0.8	12.7
95:5	0.4	15.2	0.5	18.9
98:2	0.3	19.8	0.4	21
99:1	0.3	23.5	0.4	24

Ordering Information

T	B	S											
			Wavelength G=1310& 1490& 1550nm	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) Single Mode Ultra-Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- Ultra-Broadband
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Passive Optical Network
- FTTx

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	1310±40 and 1450 to 1605	
Insertion Loss	Max.	dB	3.6	4.0
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.8	1.2
PDL	Max.	dB	0.15	0.20
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.6	3.6	4.0	4.0
60:40	2.7	4.8	2.9	5.1
70:30	2.0	6.2	2.2	6.6
80:20	1.3	8.0	1.5	8.5
90:10	0.6	11.5	0.8	12.9
95:5	0.4	15.6	0.5	19.2
98:2	0.3	20	0.4	21.5
99:1	0.3	24	0.4	24.6

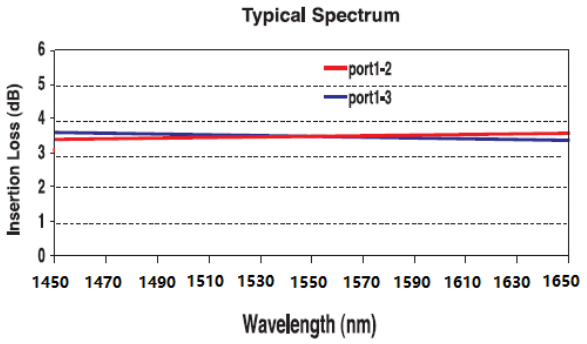
Ordering Information

U	B	S											
			Wavelength M=1310 & 1450 to 1605nm	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) 1310nm(1550nm) Single Mode Ultra-Broadband Splitter



Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- OCT (Optical Coherence Tomography)
- Optical Power Distributor

Specifications

Splitting Ratio: 50:50

Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Central Wavelength		nm	1550,1310	
Bandwidth		nm	± 100	
Insertion Loss	Max.	dB	3.6	3.8
Excess Loss	Max	dB	0.15	0.18
Uniformity	Max.	dB	0.7	1.0
PDL	Max.	dB	0.20	0.23
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Note: All specifications exclude the water absorption region centered around 1383 nm.

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
75:25±3.5	1.6	6.8	2.0	6.9
90:10±2.5	0.7	11.4	0.8	12.0
99:1±0.6	0.2	24.1	0.3	25.0

The other ratios are also available.

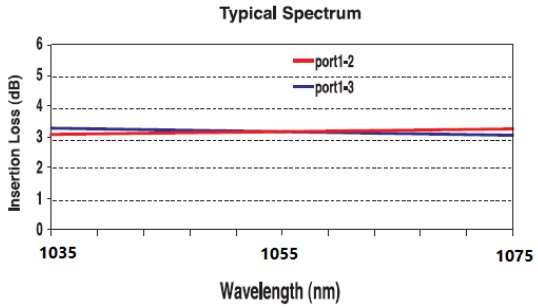
Ordering Information

U	B	S												
			Wavelength 4=1550nm 7=1310nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 ... 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent		Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) 1055nm(1064nm) Single Mode Broadband Splitter



Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- OCT (Optical Coherence Tomography)
- Medical System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications

Splitting Ratio: 50:50

Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Central Wavelength		nm	1064 or 1055	
Bandwidth		nm	± 20	
Ratio		%	50 ± 5	
Excess Loss	Max.	dB	0.2	0.3
Uniformity	Max.	dB	0.6	0.7
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Wavelength Dependent Loss Conversion Table

Splitting Ratio	WDL (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	0.2	0.2	0.25	0.25
70:30	0.4	0.6	0.5	0.7
95:5	0.2	0.6	0.3	0.7

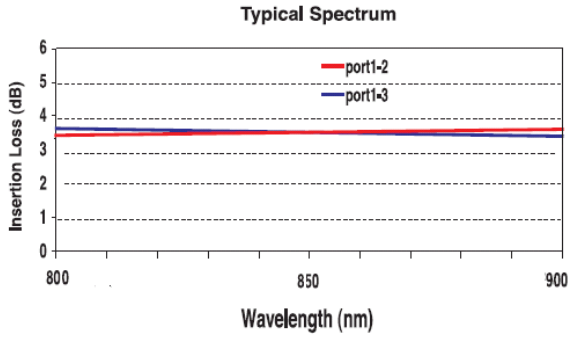
Ordering Information

S	B	S												
			Wavelength Z=1055nm 8=1064nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 ... 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 5=980-20 6=Hi1060 8=980-16	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) 850nm (830/780nm) Single Mode Broadband Splitter



Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- OCT (Optical Coherence Tomography)
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Central Wavelength		nm	830, 850, 780	
Bandwidth		nm	± 50	
Insertion Loss	Max.	dB	3.8	3.9
Excess Loss	Max.	dB	0.3	0.4
Uniformity	Max.	dB	1.0	1.2
PDL	Max.	dB	0.20	0.25
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
75:25 ±3.75	1.8	7.0	2.0	6.1
90:10 ±3	0.9	11.8	0.8	12.0
99:1 ±0.3	0.4	24.3	0.3	22.0

The other ratios are also available.

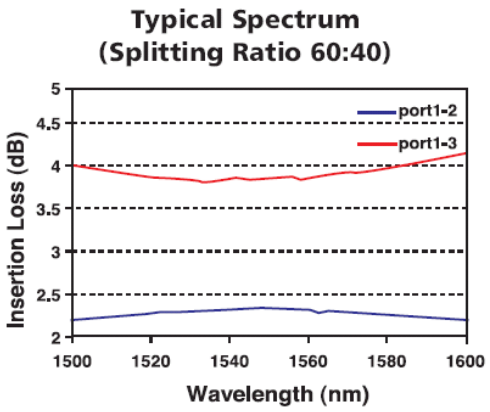
Ordering Information

S	B	S												
			Wavelength A=850nm K=830nm L=780nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 ... 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 9=Hi780C	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0,m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) Ultra-Low PDL Broadband Splitter



Product Features

- Ultra-Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.05	0.07
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.2	7.5	1.3	8.0
90:10	0.6	10.8	0.8	12

Ordering Information

L	B	S												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent H=SM 1950	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

1x2(2x2) Ultra-Low PDL Narrowband Splitter

Product Features

- Ultra-Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:		50:50	
Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x2 or 2x2			
Central Wavelength		nm	1310~2000		780~1064	
Bandwidth		nm	±10		±10	
Insertion Loss	Max.	dB	3.4	3.6	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1	0.07	0.1
Uniformity	Max.	dB	0.6	1.0	0.6	1.0
PDL	Max.	dB	0.03	0.05	0.06	0.08
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6	Ø3x54: for bare fiber		
			S8	Ø3x70: for 0.9mm loose tube		
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable		

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.2	7.5	1.3	8.0
90:10	0.6	10.8	0.8	12
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0

Ordering Information

L	N	S												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm A=850nm L=780nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM1950 L=Large mode area fiber	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x2(2x2) Ultra-Low Splitting Ratio Taps

Product Features

- Low Excess Loss
- Low Insertion Loss
- High Power Handling
- Stable and High Reliable

Product Applications

- High Power Optical Amplifiers
- Optical Testing Systems
- Optical Fiber Sensors
- Fiber Lasers
- High Power Monitors

Specifications			Tap Port Ratio: 0.1%, 0.01%, 0.001%	
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±20	
Insertion Loss for Through Port	Max.	dB	0.1	
Insertion Loss for 0.1% Tap Port		dB	30±3	30±4
Insertion Loss for 0.01% Tap Port		dB	40±4	40±5
Insertion Loss for 0.001% Tap Port		dB	50±5	50±6
Excess Loss	Typ.	dB	0.03	
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Ordering Information

L	S	T												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm K=830nm L=780nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 01=0.1% 02=0.01% 03=0.001%		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM 1950 L=Large mode area fiber	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

Fused SM Fiber Attenuator

Product Features

- Low PDL
- Low Insertion Loss
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Power Monitoring
- EDFA Module

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x1			
Central Wavelength		nm	780, 830, 980, 1064		1310~2000	
Bandwidth		nm	±10		±20	
Excess Loss	Typ.	dB	0.5	0.6	0.4	0.6
Excess Loss	Max.	dB	0.7	0.8	0.6	0.8
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6	Ø3x54: for bare fiber		
			S8	Ø3x70: for 0.9mm loose tube		
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable		

Insertion Loss and Its Tolerance & PDL

IL (dB)	IL Tolerance (dB)		PDL (dB)			
	Premium	A grade	780nm, 830nm, 980nm,1064nm		1310~2000nm	
			Premium	A grade	Premium	A grade
1	±0.1	±0.2	0.15	0.2	0.1	0.15
2	±0.2	±0.3	0.15	0.2	0.1	0.15
3	±0.3	±0.4	0.15	0.2	0.1	0.15
5	±0.7	±0.8	0.15	0.2	0.1	0.15
10	±1.0	±1.2	0.15	0.2	0.1	0.15
15	±1.8	±2.2	0.15	0.2	0.1	0.15
20	±2.5	±3.0	N/A	N/A	N/A	N/A
30	±3.0	±4.0	N/A	N/A	N/A	N/A
40	±4.0	±5.0	N/A	N/A	N/A	N/A

Ordering Information

F	O	A											
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm K=830nm L=780nm P=2000nm S=Specify		Insertion Loss 01=1.0dB 02=2.0dB 03=3.0dB 05=5.0dB 10=10dB 15=15dB 20=20dB 30=30dB 40=40dB	Bandwidth N=Narrowband B=Broadband	Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM1950 L=Large mode area fiber	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

Star & Tree Single Mode Dual-Window Broadband Splitter Module

Product Features

- Low Excess Loss
- Low Insertion Loss
- Low PDL
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Passive Optical Network
- Optical Power Distributor

Specifications

Parameter		Unit	Nx4(N=1,2,4)		Nx8(N=1,2,8)		Nx16(N=1,2)		Nx32(N=1,2)	
Operating Wavelength			1310±40 and 1550±40							
Grade		nm	P	A	P	A	P	A	P	A
Insertion Loss	Max.	dB	7.2	7.6	10.7	11.7	14.5	15.5	18.5	19.4
Excess Loss	Typ.	dB	0.3	0.5	0.5	0.7	0.8	1.2	1.0	1.4
Uniformity	Max.	dB	1.4	1.6	2.1	2.5	2.8	3.4	3.5	4.1
PDL	Max.	dB	0.3		0.4		0.5		0.6	
Operating power	Max.	W	5							
Operating Temperature		°C	-20 to +85							
Storage Temperature		°C	-50 to +85							
Package Type		mm	M7=18x114x140 M10=29x130x132		M8=43x322x480 M11=58x130x132		M8=43x322x480			
			M5=10x80x100: for 0.9mm loose tube or 3mm cable				M6=18x115x141: for 0.9mm loose tube or 3mm cable			

Ordering Information

S	D	M												
			Wavelength 0=1310nm&1550nm	Structure 14=1x4 24=2x4 44=4x4 18=1x8 28=2x8 88=8x8 A6=1x16 B6=2x16 E2=1x32 F2=2x32		Splitting Ratio 0=Even	Grade P=Premium A=A grade	Package H=M5 I=M6 J=M7 K=M8 M=M10 N=M11	Fiber Type 1=G652 or Equivalent	Pigtail M=0.9mm loose tube L=3mm cable F=Adapting Flange		Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify N=None	Connector Or Flange 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

Star & Tree Single Mode Broadband Splitter Module

Product Features

- Ultra-Low PDL
- Low-Excess Loss
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Passive Optical Network
- Optical Power Distributor

Specifications

Parameter		Unit	Nx4(N=1,2,4)			Nx8(N=1,2,8)			Nx16(N=1,2)			Nx32(N=1,2)		
Bandwidth		nm	± 40											
Grade		nm	U	P	A	U	P	A	U	P	A	U	P	A
Insertion Loss	Max.	dB	6.8	6.8	7.2	10.2	10.2	11.3	13.6	13.6	15.1	17.5	17.5	18.5
Excess Loss	Typ.	dB	0.3	0.3	0.5	0.5	0.5	0.7	0.8	0.8	1.0	1.0	1.0	1.4
Uniformity	Max.	dB	0.7	0.7	0.9	1.2	1.2	1.5	1.6	1.6	2.0	2.0	2.0	2.5
PDL	Max.	dB	0.02	0.2		0.03	0.3		0.04	0.4		0.05	0.5	
Operating power	Max.	W	5											
Operating Temperature		°C	-20 to +85											
Storage Temperature		°C	-50 to +85											
Package Type		mm	M7=18x114x140 M10=29x130x132			M8=43x322x480 M11=58x130x132			M8=43x322x480					
			M5=10x80x100: for 0.9mm loose tube or 3mm cable						M6=18x115x141: for 0.9mm loose tube or 3mm cable					

Ordering Information

S	B	M												
			Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure 14=1x4 24=2x4 44=4x4 18=1x8 28=2x8 88=8x8 A6=1x16 B6=2x16 E2=1x32 F2=2x32		Splitting Ratio 0=Even	Grade P=Premium A=A grade U=Ultra-Low PDL	Package H=M5 I=M6 J=M7 K=M8 M=M10 N=M11	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail M=0.9mm loose tube L=3mm Cable F=Adapting Flange	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify N=None	Connector Or Flange 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

Star & Tree Single Mode Narrowband Splitter Module

Product Features

- Ultra-Low PDL
- Low-Excess Loss
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Passive Optical Network
- Optical Power Distributor

Specifications

Parameter		Unit	Nx4(N=1,2,4)		Nx8(N=1,2,8)		Nx16(N=1,2)		Nx32(N=1,2)	
Bandwidth		nm	± 10							
Grade		nm	P	A	P	A	P	A	P	A
Insertion Loss	Max.	dB	6.8	7.2	10.2	11.3	13.6	15.1	17.5	18.5
Excess Loss	Typ.	dB	0.3	0.5	0.5	0.7	0.8	1.0	1.0	1.4
Uniformity	Max.	dB	0.7	0.9	1.2	1.5	1.6	2.0	2.0	2.5
PDL	Max.	dB	0.1		0.2		0.25		0.3	
Operating power	Max.	W	5							
Operating Temperature		°C	-20 to +85							
Storage Temperature		°C	-50 to +85							
Package Type		mm	M7=18x114x140 M10=29x130x132		M8=43x322x480 M11=58x130x132		M8=43x322x480			
			M5=10x80x100: for 0.9mm loose tube or 3mm cable				M6=18x115x141: for 0.9mm loose tube or 3mm cable			

Ordering Information

S	N	M												
			Wavelength 4=1550nm 5=1480nm 7=1310nm 8=1064nm 9=980nm A=850nm K=830nm L=780nm P=2000nm S=Specify	Structure 14=1x4 24=2x4 44=4x4 18=1x8 28=2x8 88=8x8 A6=1x16 B6=2x16 E2=1x32 F2=2x32		Splitting Ratio 0=Even	Grade P=Premium A=A grade	Package H=M5 I=M6 J=M7 K=M8 M=M10 N=M11	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM1950 L=Large mode area fiber	Pigtail M=0.9mm loose tube L=3mm Cable F=Adapting Flange		Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify N=None	Connector Or Flange 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

SM Fiber Patch Cords

Product Features

- Low Insertion Loss
- High Power Handling
- Excellent Return Loss
- Telecordia GR-326 Compliant

Product Applications

- Power Jumps
- Testing Systems
- SM Fiber Sense Systems
- Optical SM Modules

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Center Wavelength(nm)		nm	405, 532, 633, 780, 850, 980, 1064		1310, 1475, 1480, 1550, 1570, 1590, 1625, 2000	
Insertion Loss	Max.	dB	0.60	0.80	0.30	0.40
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			

Ordering Information

S	F	P	C					0	0			

Wavelength
1=1625nm
2=1590nm
3=1570nm
4=1550nm
5=1480nm
6=1475nm
7=1310nm
8=1064nm
9=980nm
A=850nm
L=780nm
B=633nm
C=532nm
Q=405nm
P=2000nm
S=Specify

Grade
P=Premium
A=A grade

Cable Type
S=250µm bare fiber
M=0.9mm loose tube
L=3mm cable

Fiber Type
1=G652 or Equivalent
5=980-20
6=HI1060
7=HI1060 FLEX
8=980-16
9=HI780C
A=630-HP
B=460-HP
C=405-HP
H=SM1950

Cable Length
1=1.0m
2=2.0m
3=3.0m
4=4.0m
5=5.0m
S=Specify

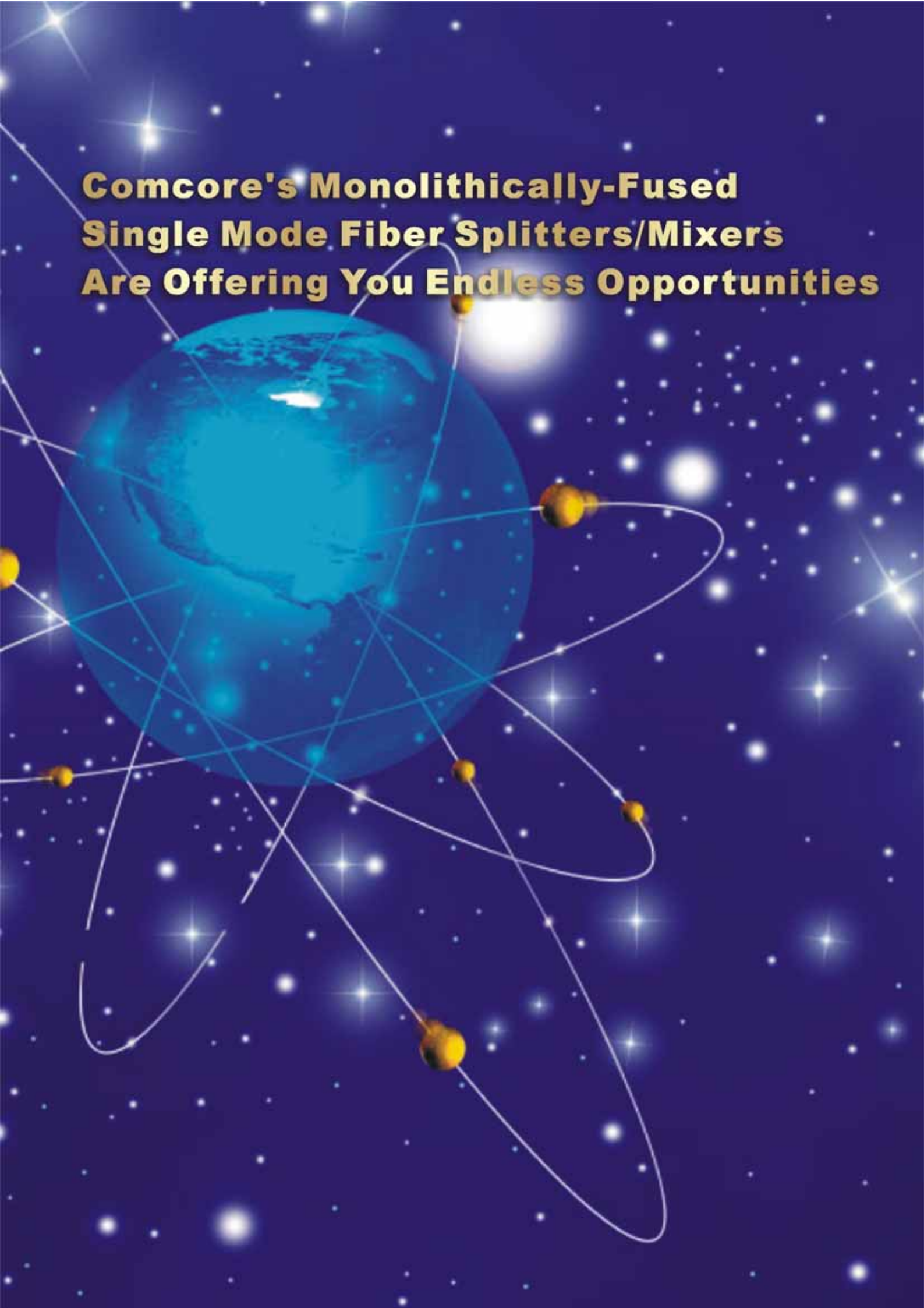
Connector at Port 1
1=FC/PC
2=FC/SPC
3=FC/APC
4=SC/SPC
5=SC/APC
6=ST
7=FC/UPC
8=SC/UPC
9=MU
A=LC/PC
B=SC/PC
C=LC/UPC
D=LC/APC

Connector at port 2
0= None
1=FC/PC
2=FC/SPC
3=FC/APC
4=SC/SPC
5=SC/APC
6=ST
7=FC/UPC
8=SC/UPC
9=MU
A=LC/PC
B=SC/PC
C=LC/UPC
D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

Comcore's Monolithically-Fused Single Mode Fiber Splitters/Mixers Are Offering You Endless Opportunities



1x3 Single Mode Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications

Parameter		Unit	Splitting Ratio: 33:33:33 Premium	A grade
Port Configuration			1x3	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	5.4	5.7
Excess Loss	Typ.	dB	0.15	0.2
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M2	7.5x18x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table only for +/-20nm Bandwidth

Splitting Ratio	Max Insertion Loss (dB)					
	Premium Grade			A Grade		
	Output Port1	Output Port2	Output Port3	Output Port1	Output Port2	Output Port3
49:2:49	3.6	16	3.6	3.8	14	3.8
45:10:45	4.0	11	4.0	4.2	11.5	4.2
40:20:40	4.5	8	4.5	4.7	8.4	4.7
35:30:35	5.0	5.8	5.0	5.2	6.1	5.2
33:33:33	5.3	5.3	5.3	5.6	5.6	5.6
30:40:30	5.8	4.5	5.8	6.1	4.7	6.1
10:80:10	11	1.2	11	12	1.4	12
5:90:5	15	0.7	15	16	0.9	16
2:96:2	19	0.4	19	20	0.5	20
1:98:1	23	0.3	23	24	0.4	24

Ordering Information

S	B	S												
			Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure 3=1x3	Splitting Ratio 98=1:98:1 96=2:96:2 90=5:90:5 … 33=33:33:33 20=40:20:40 10=45:10:45 02=49:2:49		Grade P=Premium A=A grade	Package 5=S6 7=S8 E=M2	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x3 Single Mode Dual-window Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

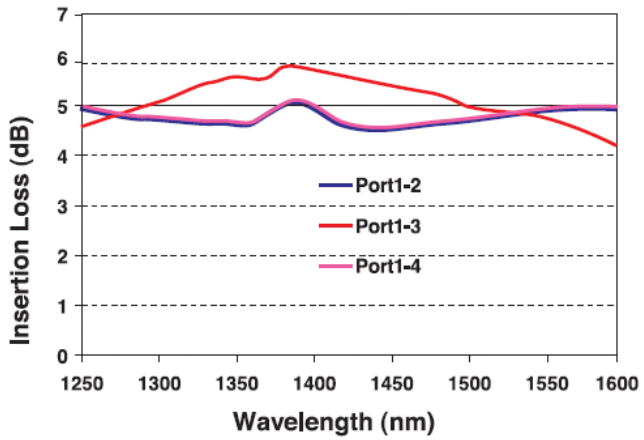
Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications

Splitting Ratio:			33:33:33	
Parameter		Unit	Premium	A grade
Port Configuration			1x3	
Bandwidth		nm	1310±40 and 1550±40	
Insertion Loss	Max.	dB	5.6	6.0
Excess Loss	Typ.	dB	0.15	0.2
Uniformity	Max.	dB	1.2	1.6
PDL	Max.	dB	0.25	0.30
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M2	7.5x18x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

D	B	S												
			Wavelength 0=1310&1550nm	Structure 3=1x3	Splitting Ratio 33=33:33:33		Grade P=Premium A=A grade	Package 5=S6 7=S8 E=M2	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x3 Ultra-Low PDL Narrowband Splitter

Product Features

- Ultra-Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications

Parameter		Unit	Splitting Ratio: 33:33:33 Premium	A grade
Port Configuration			1x3	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	5.4	5.7
Excess Loss	Typ.	dB	0.15	0.2
Uniformity	Max.	dB	0.8	1.2
PDL	Max.	dB	0.03	0.07
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M2	7.5x18x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss(dB)					
	Premium			A grade		
	Output Port 1	Output Port 2	Output Port 3	Output Port 1	Output Port 2	Output Port 3
40:20:40	4.5	7.8	4.5	4.8	8.2	4.8
35:30:35	5.2	5.7	5.2	5.4	6.0	5.4
33:33:33	5.4	5.4	5.4	5.7	5.7	5.7
30:40:30	5.7	4.4	5.7	6.0	4.7	6.0
25:50:25	6.6	3.4	6.6	7.0	3.6	7.0
20:60:20	7.4	2.8	7.4	7.7	3.0	7.7
15:70:15	9.0	2.1	9.0	9.4	2.4	9.4
10:80:10	10.8	1.1	10.8	11.2	1.3	11.2
5:90:5	14.7	0.65	14.7	15	0.8	15
2.5:95:2.5	17.8	0.40	17.8	18.1	0.5	18.1
1:98:1	21.5	0.25	21.5	22	0.3	22
0.5:99:0.5	24.5	0.25	24.5	25	0.3	25

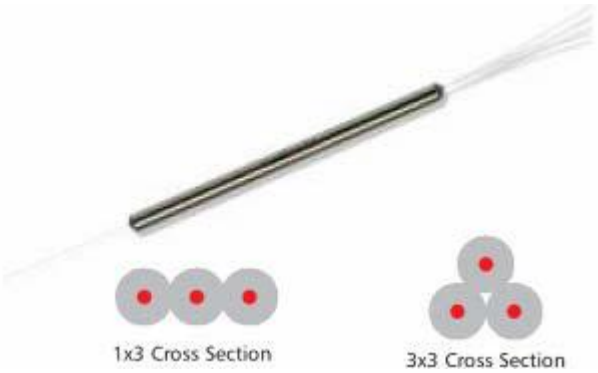
Ordering Information

L	N	S											
			Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure 3=1x3	Splitting Ratio 99=0.5:99:0.5 98=1:98:1 90=5:90:5 ... 33=33:33:33 20=40:20:40		Grade P=Premium A=A grade	Package 5=S6 7=S8 E=M2	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x3(3x3) 80μm Fiber Single Mode Narrowband Splitter



Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications

Splitting Ratio:			33:33:33			
Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x3		3x3	
Bandwidth		nm	±20			
Insertion Loss	Max.	dB	5.4	5.7	6.0	6.5
Excess Loss	Typ.	dB	0.15	0.2	0.3	0.4
Uniformity	Max.	dB	0.8	1.2	1.2	1.6
PDL	Max.	dB	0.15	0.2	0.20	0.25
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S4	Ø3x35: for bare fiber		
			S6	Ø3x54: for 0.9mm loose tube		
			M2	7.5x18x90: for 0.9mm loose tube or 2mm cable or 3mm cable		

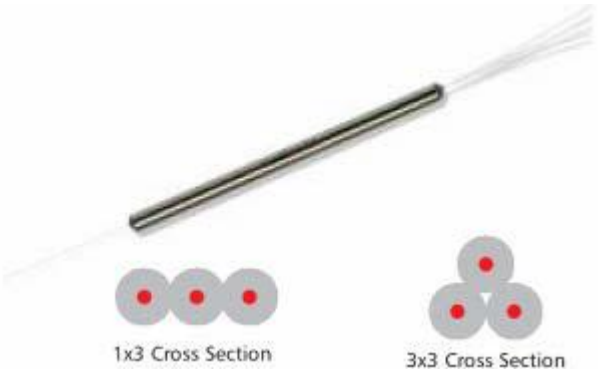
Ordering Information

S	N	S												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm A=850nm K=830nm L=780nm P=2000nm S=Specify	Structure 3=1x3 A=3x3	Splitting Ratio 33=33:33:33		Grade P=Premium A=A grade	Package 3=S4 5=S6 E=M2	Fiber Type T=80/165μm G652 core diameter 8μm Y=80/165μm G652 core diameter 6μm D=80/165μm 980-20		Pigtail F=165μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x3(3x3) Single Mode Narrowband Splitter



Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications

Splitting Ratio:			33:33:33			
Parameter		Unit	Premium	A grade	Premium	A grade
Port Configuration			1x3		3x3	
Bandwidth		nm	±20			
Insertion Loss	Max.	dB	5.4	5.7	6.0	6.5
Excess Loss	Typ.	dB	0.15	0.2	0.3	0.4
Uniformity	Max.	dB	0.8	1.2	1.2	1.6
PDL	Max.	dB	0.05	0.1	0.15	0.2
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6	Ø3x54: for bare fiber		
			S8	Ø3x70: for 0.9mm loose tube		
			M2	7.5x18x90: for 0.9mm loose tube or 2mm cable or 3mm cable		

Splitting Ratio & Insertion Loss Conversion Table (1x3 Structure Only)

Splitting Ratio	Maximum Insertion Loss(dB)					
	Premium			A grade		
	Output Port 1	Output Port 2	Output Port 3	Output Port 1	Output Port 2	Output Port 3
40:20:40	4.5	7.8	4.5	4.8	8.2	4.8
35:30:35	5.2	5.7	5.2	5.4	6.0	5.4
33:33:33	5.4	5.4	5.4	5.7	5.7	5.7
30:40:30	5.7	4.4	5.7	6.0	4.7	6.0
25:50:25	6.6	3.4	6.6	7.0	3.6	7.0
20:60:20	7.4	2.8	7.4	7.7	3.0	7.7
15:70:15	9.0	2.1	9.0	9.4	2.4	9.4
10:80:10	10.8	1.1	10.8	11.2	1.3	11.2
5:90:5	14.7	0.65	14.7	15	0.8	15
2.5:95:2.5	17.8	0.40	17.8	18.1	0.5	18.1
1:98:1	21.5	0.25	21.5	22	0.3	22
0.5:99:0.5	24.5	0.25	24.5	25	0.3	25

Ordering Information

S	N	S												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm A=850nm K=830nm L=780nm P=2000nm S=Specify	Structure 3=1x3 A=3x3	Splitting Ratio 99=0.5:99:0.5 98=1:98:1 90=5:90:5 ... 33=33:33:33 20=40:20:40		Grade P=Premium A=A grade	Package 5=S6 7=S8 E=M2	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM1950 A=Large mode area fiber	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x4 Single Mode Broadband Splitter

Product Features

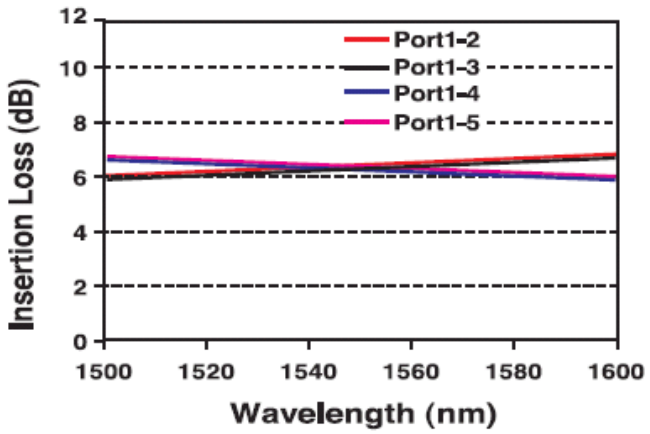
- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	25:25:25:25
Parameter		Unit	Premium	A grade
Port Configuration			1x4	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	7.0	7.5
Excess Loss	Typ.	dB	0.2	0.3
Uniformity	Max.	dB	1.2	1.7
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M4	8x26x100: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

S	B	S											
			Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure 4=1x4	Splitting Ratio 25=25:25:25:25		Grade P=Premium A=A grade	Package A=S11 B=S12 G=M4	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x4 Single Mode Dual-Window Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

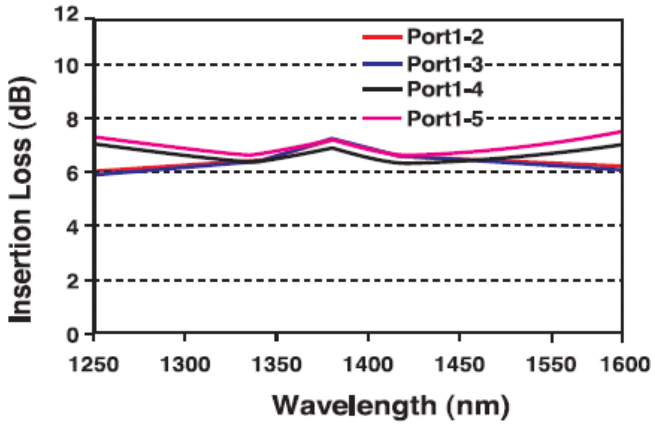
- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications

Splitting Ratio: 25:25:25:25

Parameter		Unit	Premium	A grade
Port Configuration			1x4	
Bandwidth		nm	1310±40 and 1550±40	
Insertion Loss	Max.	dB	7.5	7.9
Excess Loss	Typ.	dB	0.4	0.6
Uniformity	Max.	dB	1.4	2.0
PDL	Max.	dB	0.25	0.30
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M4	8x26x100: for 0.9mm loose tube or 2mm cable or 3mm cable

Typical Spectrum



Ordering Information

D	B	S											
			Wavelength 0=1310&1550nm	Structure 4=1x4	Splitting Ratio 25=25:25:25:25		Grade P=Premium A=A grade	Package A=S11 B=S12 G=M4	Fiber Type 1=G652 or Equivalent	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x4 Single Mode Narrowband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	25:25:25:25
Parameter		Unit	Premium	A grade
Port Configuration			1x4	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	6.7	7.2
Excess Loss	Typ.	dB	0.2	0.3
Uniformity	Max.	dB	1.0	1.4
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M4	8x26x100: for 0.9mm loose tube or 2mm cable or 3mm cable

Ordering Information

S	N	S											
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm A=850nm L=780nm P=2000nm S=Specify	Structure 4=1x4	Splitting Ratio 25=25:25:25:25		Grade P=Premium A=A grade	Package A=S11 B=S12 G=M4	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 H=SM1950 9=HI780C H=SM1950	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

1x5 Single Mode Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	20:20:20:20:20
Parameter		Unit	Premium	A grade
Port Configuration			1x5	
Bandwidth		nm	±20	
Insertion Loss	Max.	dB	8.0	8.5
Excess Loss	Typ.	dB	0.3	0.5
Uniformity	Max.	dB	1.2	1.7
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube

Ordering Information

S	B	S											
			Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure E=1x5	Splitting Ratio 20=20:20:20:20:20		Grade P=Premium A=A grade	Package A=S11 B=S12	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail S=250μm bare fiber M=0.9mm loose tube	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x6 Single Mode Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- FTTx and PONs
- Optical Power Distributor

Specifications			Splitting Ratio:	Even
Parameter		Unit	Premium	A grade
Port Configuration			1x6	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	9.2	9.8
Excess Loss	Typ.	dB	0.4	0.7
PDL	Max.	dB	0.15	0.25
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S12	Ø4x70 for bare fiber

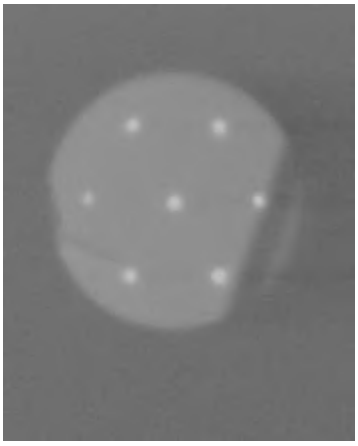
Ordering Information

S	B	S			0	0							
			Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure 6=1x6	Splitting Ratio 00= Even		Grade P=Premium A=A grade	Package B=S12	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x7 Single Mode Broadband Splitter



Product Features

- Low PDL
- Low Insertion Loss
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- FTTx and PONs
- Optical Power Distributor

Specifications			Splitting Ratio:	Even
Parameter		Unit	Premium	A grade
Port Configuration			1x7	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	10	10.8
Excess Loss	Typ.	dB	0.4	0.7
PDL	Max.	dB	0.2	0.25
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S12	Ø4x70 for bare fiber

Ordering Information

S	B	S			0	0						
			Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure 7=1x7	Splitting Ratio 00= Even		Grade P=Premium A=A grade	Package B=S12	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x8 Single Mode Broadband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	even
Parameter		Unit	Premium	A grade
Port Configuration			1x8	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	11.2	12
Excess Loss	Typ.	dB	0.4	0.6
Uniformity	Max.	dB	2.0	2.5
PDL	Max.	dB	0.2	0.3
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber

Ordering Information

S	B	S											
			Wavelength 4=1550nm 5=1480nm 7=1310nm P=2000nm S=Specify	Structure 8=1x8	Splitting Ratio 00=Even		Grade P=Premium A=A grade	Package A=S11	Fiber Type 1=G652 or Equivalent H=SM1950		Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x8 Single Mode Narrowband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio:	even
Parameter		Unit	Premium	A grade
Port Configuration			1x8	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	10.8	11.6
Excess Loss	Typ.	dB	0.4	0.6
Uniformity	Max.	dB	2.0	2.5
PDL	Max.	dB	0.2	0.3
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber

Ordering Information

S	N	S											
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm A=850nm L=780nm P=2000nm S=Specify	Structure 8=1x8	Splitting Ratio 00=Even		Grade P=Premium A=A grade	Package A=S11	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM1950 A=Large mode area fiber	Pigtail S=250μm bare fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

2x4 Single Mode Narrowband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio: 25:25:25:25	
Parameter		Unit	Premium	A grade
Port Configuration			2x4	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	7.0	7.6
Excess Loss	Typ.	dB	0.3	0.4
Uniformity	Max.	dB	1.3	1.7
PDL	Max.	dB	0.15	0.2
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M4	8x26x100: for 0.9mm loose tube or 2mm cable or 3mm cable

Ordering Information

S	N	S											
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm A=850nm L=780nm P=2000nm S=Specify	Structure 5=2x4	Splitting Ratio 25=25:25:25:25		Grade P=Premium A=A grade	Package A=S11 B=S12 G=M4	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM1950 A=Large mode area fiber	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

4x4 Single Mode Narrowband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio: 25:25:25:25	
Parameter		Unit	Premium	A grade
Port Configuration			4x4	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	7.5	8.0
Excess Loss	Typ.	dB	0.4	0.5
Uniformity	Max.	dB	1.7	2.2
PDL	Max.	dB	0.2	0.25
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M4	8x26x100: for 0.9mm loose tube or 2mm cable or 3mm cable

Ordering Information

S	N	S												
			Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm L=780nm P=2000nm S=Specify	Structure B=4x4	Splitting Ratio 25=25:25:25:25		Grade P=Premium A=A grade	Package A=S11 B=S12 G=M4	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C H=SM1950 A=Large mode area fiber	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

COMCORE

Comcore's Versatile Multimode Products Are The Best You Can Find For Your Low-Cost Solutions

1x2(2x2) 105/125μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- LAN
- Optical Sensor
- Access Network

Specifications			Splitting Ratio: 50:50	
Parameter		Unit	1x2 or 2x2	
Grade			P	A
Central Wavelength		nm	2000, 1550, 1310, 850	
Bandwidth		nm	±20	
Insertion Loss	Max.	dB	3.6	3.8
Excess Loss	Typ.	dB	0.2	0.3
Uniformity	Max.	dB	0.5	0.8
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Ø3x54: for bare fiber
			S8	Ø3x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table for 2000, 1550, 1310, 850nm

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
60:40	2.6	4.6	3.0	5.0
70:30	1.9	5.9	2.3	6.3
80:20	1.2	7.8	1.7	8.3
90:10	0.7	11.2	1.2	12
95:5	0.5	15	0.8	16

Ordering Information

M	B	S												
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 4=105/125μm (NA=0.15) J=105/125μm (NA=0.22)	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x2(2x2) 200/220μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Fiber Laser
- Optical Sensor
- Access Network

Specifications

Parameter		Unit	Splitting Ratio: 50:50	
			1x2 or 2x2	
Grade			Premium	A grade
Central Wavelength		nm	2000, 1550, 1310, 850	
Bandwidth		nm	±20	
Insertion Loss	Max.	dB	4.5	4.7
Excess Loss	Max.	dB	1.5	1.8
Uniformity	Max.	dB	0.5	0.6
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table for 2000, 1550, 1310, 850nm

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
60:40	2.6	4.6	3.0	5.0
70:30	1.9	5.9	2.3	6.3
80:20	1.2	7.8	1.7	8.3
90:10	0.7	11.2	1.2	12
95:5	0.5	15	0.8	16

Ordering Information

M	B	S												
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package A=S11 B=S12 D=M1	Fiber Type K=200/220μm (NA=0.22)	Pigtail S=500μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x2(2x2) 400/440μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- Fiber Laser
- Optical Sensor
- Access Network

Specifications

Splitting Ratio:			50:50	
Parameter		Unit	1x2 or 2x2	
Grade			Premium	A grade
Central Wavelength		nm	2000, 1550, 1310, 850	
Bandwidth		nm	±20	
Insertion Loss	Max.	dB	4.5	4.7
Excess Loss	Max.	dB	1.5	1.8
Uniformity	Max.	dB	0.5	0.6
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table for 2000, 1550, 1310, 850nm

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
60:40	2.6	4.6	3.0	5.0
70:30	1.9	5.9	2.3	6.3
80:20	1.2	7.8	1.7	8.3
90:10	0.7	11.2	1.2	12
95:5	0.5	15	0.8	16

Ordering Information

M	B	S												
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade P=Premium A=A grade	Package A=S11 B=S12 D=M1	Fiber Type Q=400/440μm (NA=0.22)	Pigtail S=730um bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x2(2x2) 50/125μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Telcordia 1221 Compliance
- Very Compact Size

Product Applications

- Optical Communication System
- LAN
- Optical Sensor
- Access Network

Specifications

Splitting Ratio: 50:50

Parameter		Unit	1x2 or 2x2					
Grade			U	P	A	U	P	A
Central Wavelength		nm	2000, 1550, 1310			850		
Bandwidth		nm	±20					
Insertion Loss	Max.	dB	3.5	4.0	4.5	3.7	5.0	5.5
Excess Loss	Typ.	dB	0.3	0.7	1.0	0.6	0.8	1.0
Uniformity	Max.	dB	0.5	0.5	0.8	0.5	0.5	0.8
Operating power	Max.	W	5					
Operating Temperature		°C	-40 to +85					
Storage Temperature		°C	-50 to +85					
Package Type		mm	S6	Ø3x54: for bare fiber				
			S8	Ø3x70: for 0.9mm loose tube				
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable				

Splitting Ratio & Insertion Loss Conversion Table for 2000, 1550, 1310 ± 20nm

Splitting Ratio	Maximum Insertion Loss (dB)					
	Ultra-Premium		Premium		A grade	
	Output Port1	Output Port2	Output Port1	Output Port2	Output Port1	Output Port2
60:40	2.6	4.6	3.2	5.0	3.7	5.6
70:30	1.9	5.9	2.4	6.3	2.9	7.0
80:20	1.2	7.8	1.7	8.2	2.3	9.0
90:10	0.7	11.2	1.2	12	1.8	12.8
95:5	0.5	15	0.8	16	1.5	16.8

Splitting Ratio & Insertion Loss Conversion Table for 850 ± 20nm

Splitting Ratio	Maximum Insertion Loss (dB)					
	Ultra-Premium		Premium		A grade	
	Output Port1	Output Port2	Output Port1	Output Port2	Output Port1	Output Port2
60:40	3.0	5.0	4.0	6.0	4.7	6.6
70:30	2.4	6.2	3.3	7.3	3.9	8.0
80:20	1.7	8.1	2.3	9.2	3.2	10.0
90:10	1.2	11.4	2.0	12.5	2.7	13.5
95:5	1.0	14.3	1.6	16.5	2.4	17.5

Ordering Information

M	B	S											
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade U-Ultra-Premium P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 2=50/125μm	Pigtail S=250μm Bare fiber M=0.9mm Loose tube L=3mm Cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x2(2x2) 62.5/125μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Telcordia 1221 Compliance
- Very Compact Size

Product Applications

- Optical Communication System
- LAN
- Optical Sensor
- Access Network

Specifications

Splitting Ratio: 50:50

Parameter		Unit	1x2 or 2x2				
Grade			P	A	U	P	A
Central Wavelength		nm	2000, 1550, 1310		850		
Bandwidth		nm	±20				
Insertion Loss	Max.	dB	3.5	3.9	3.7	4.3	4.7
Excess Loss	Typ.	dB	0.3	0.5	0.6	0.8	1.0
Uniformity	Max.	dB	0.5	0.8	0.5	0.5	0.8
Operating power	Max.	W	5				
Operating Temperature		°C	-40 to +85				
Storage Temperature		°C	-50 to +85				
Package Type		mm	S6	Ø3x54: for bare fiber			
			S8	Ø3x70: for 0.9mm loose tube			
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable			

Splitting Ratio & Insertion Loss Conversion Table for 2000, 1550, 1310 ± 20nm

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port1	Output Port2	Output Port1	Output Port2
60:40	2.6	4.6	3.0	5.0
70:30	1.9	5.9	2.4	6.3
80:20	1.2	7.8	1.7	8.3
90:10	0.7	11.2	1.2	12
95:5	0.5	15	0.8	16

Splitting Ratio & Insertion Loss Conversion Table for 850 ± 20nm

Splitting Ratio	Maximum Insertion Loss (dB)					
	Ultra-Premium		Premium		A grade	
	Output Port1	Output Port2	Output Port1	Output Port2	Output Port1	Output Port2
60:40	2.8	4.8	3.3	5.2	3.8	5.7
70:30	2.2	6.0	2.6	6.5	3.0	7.0
80:20	1.5	7.9	1.9	8.3	2.4	9.0
90:10	1.1	11.2	1.4	11.6	1.9	12.5
95:5	0.9	14.0	1.2	15.5	1.5	16.5

Ordering Information

M	B	S											
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50		Grade U-Ultra-Premium P=Premium A=A grade	Package 5=S6 7=S8 D=M1	Fiber Type 3=62.5/125μm	Pigtail S=250μm Bare fiber M=0.9mm Loose tube L=3mm Cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x3(3x3) 105/125μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

Specifications

Parameter		Unit	Splitting Ratio: 33:33:33			
			1x3		3x3	
Grade			P	A	P	A
Central Wavelength		nm	2000, 1550, 1310, 850			
Bandwidth		nm	±20			
Insertion Loss	Max.	dB	5.4	5.7	5.8	6.2
Excess Loss	Typ.	dB	0.2	0.4	0.3	0.6
Uniformity	Max.	dB	1.0	1.4	1.4	1.8
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S6	Ø3x54: for bare fiber		
			S8	Ø3x70: for 0.9mm loose tube		
			M2	7.5x18x90: for 0.9mm loose tube or 2mm cable or 3mm cable		

Ordering Information

M	B	S												
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 3=1x3 A=3x3	Splitting Ratio 33=33:33:33		Grade P=Premium A=A grade	Package 5=S6 7=S8 E=M2	Fiber Type 4=105/125μm (NA=0.15) J=105/125μm (NA=0.22)	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x3(3x3) 50/125µm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

Specifications			Splitting Ratio:				33:33:33			
Parameter		Unit	1x3				3x3			
Grade			P	A	P	A	P	A	P	A
Central Wavelength		nm	2000,1550,1310		850		2000,1550,1310		850	
Bandwidth		nm	±20							
Insertion Loss	Max.	dB	6.2	6.7	7.2	7.7	6.7	7.2	7.7	8.2
Excess Loss	Typ.	dB	0.4	0.7	1.0	1.2	0.7	1.0	1.2	1.4
Uniformity	Max.	dB	1.0	1.4	1.0	1.4	1.4	1.8	1.4	1.8
Operating power	Max.	W	5							
Operating Temperature		°C	-40 to +85							
Storage Temperature		°C	-50 to +85							
Package Type		mm	S6	Ø3x54: for bare fiber						
			S8	Ø3x70: for 0.9mm loose tube						
			M2	7.5x18x90: for 0.9mm loose tube or 2mm cable or 3mm cable						

Ordering Information

M	B	S												
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 3=1x3 A=3x3	Splitting Ratio 33=33:33:33		Grade P=Premium A=A grade	Package 5=S6 7=S8 E=M2	Fiber Type 2=50/125µm	Pigtail S=250µm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x3(3x3) 62.5/125µm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

Specifications			Splitting Ratio:				33:33:33			
Parameter		Unit	1x3				3x3			
Grade			P	A	P	A	P	A	P	A
Central Wavelength		nm	2000,1550,1310		850		2000,1550,1310		850	
Bandwidth		nm	±20							
Insertion Loss	Max.	dB	5.6	6.0	6.4	6.8	6.0	6.5	6.8	7.3
Excess Loss	Typ.	dB	0.3	0.4	0.6	0.8	0.4	0.6	0.8	1.0
Uniformity	Max.	dB	1.0	1.4	1.0	1.4	1.4	1.8	1.4	1.8
Operating power	Max.	W	5							
Operating Temperature		°C	-40 to +85							
Storage Temperature		°C	-50 to +85							
Package Type		mm	S6	Ø3x54: for bare fiber						
			S8	Ø3x70: for 0.9mm loose tube						
			M2	7.5x18x90: for 0.9mm loose tube or 2mm cable or 3mm cable						

Ordering Information

M	B	S												
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 3=1x3 A=3x3	Splitting Ratio 33=33:33:33		Grade P=Premium A=A grade	Package 5=S6 7=S8 E=M2	Fiber Type 3=62.5/125µm	Pigtail S=250µm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x4(4x4) 105/125μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

Specifications

Splitting Ratio: 25:25:25:25

Parameter		Unit	1x4		4x4	
Grade			P	A	P	A
Central Wavelength		nm	2000, 1550, 1310, 850			
Bandwidth		nm	±20			
Insertion Loss	Max.	dB	6.8	7.3	7.3	7.8
Excess Loss	Typ.	dB	0.2	0.4	0.3	0.5
Uniformity	Max.	dB	1.2	1.6	1.8	2.2
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			
Package Type		mm	S11	Ø4x60: for bare fiber		
			S12	Ø4x70: for 0.9mm loose tube		
			M4	8x26x100: for 0.9mm loose tube or 2mm cable or 3mm cable		

Ordering Information

M	B	S											
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 4=1x4 B=4x4	Splitting Ratio 25=25:25:25:25	Grade P=Premium A=A grade	Package A=S11 B=S12 G=M4	Fiber Type 4=105/125μm (NA=0.15) J=105/125μm (NA=0.22)	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x4(4x4) 50/125μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

Specifications

Splitting Ratio: 25:25:25:25

Parameter		Unit	1x4				4x4			
Grade			P	A	P	A	P	A	P	A
Central Wavelength		nm	2000,1550,1310		850		2000,1550,1310		850	
Bandwidth		nm	±20							
Insertion Loss	Max.	dB	7.5	8.0	8.5	9.0	8.0	8.5	9.0	9.5
Excess Loss	Typ.	dB	0.8	1.0	1.2	1.5	1.0	1.2	1.5	1.8
Uniformity	Max.	dB	1.2	1.6	1.2	1.6	1.8	2.2	1.8	2.2
Operating power	Max.	W	5							
Operating Temperature		°C	-40 to +85							
Storage Temperature		°C	-50 to +85							
Package Type		mm	S11	Ø4x60: for bare fiber						
			S12	Ø4x70: for 0.9mm loose tube						
			M4	8x26x100: for 0.9mm loose tube or 2mm cable or 3mm cable						

Ordering Information

M	B	S											
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 4=1x4 B=4x4	Splitting Ratio 25=25:25:25:25		Grade P=Premium A=A grade	Package A=S11 B=S12 G=M4	Fiber Type 2=50/125μm	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

1x4(4x4) 62.5/125μm Multi-Mode Broadband Splitter (Mixer)

Product Features

- Low Insertion Loss
- High Directivity
- Stable and Reliable
- Compact Size

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

Specifications

Splitting Ratio: 25:25:25:25

Parameter		Unit	1x4				4x4			
Grade			P	A	P	A	P	A	P	A
Central Wavelength		nm	2000,1550,1310		850		2000,1550,1310		850	
Bandwidth		nm	±20							
Insertion Loss	Max.	dB	7.5	8.0	8.5	9.0	7.5	8.0	8.3	8.8
Excess Loss	Typ.	dB	0.8	1.0	1.2	1.5	0.4	0.5	0.8	1.0
Uniformity	Max.	dB	1.2	1.6	1.2	1.6	1.8	2.2	1.8	2.2
Operating power	Max.	W	5							
Operating Temperature		°C	-40 to +85							
Storage Temperature		°C	-50 to +85							
Package Type		mm	S11	Ø4x60: for bare fiber						
			S12	Ø4x70: for 0.9mm loose tube						
			M4	8x26x100: for 0.9mm loose tube or 2mm cable or 3mm cable						

Ordering Information

M	B	S											
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 4=1x4 B=4x4	Splitting Ratio 25=25:25:25:25		Grade P=Premium A=A grade	Package A=S11 B=S12 G=M4	Fiber Type 3=62.5/125μm	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

Star & Tree 50/125μm Multi-Mode Broadband Splitter Module

Product Features

- Low Insertion Loss
- Low Excess Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

Specifications

Parameter		Unit	Nx8(N=1,2,8)		Nx16(N=1,2)		Nx32(N=1,2)	
Grade			P	A	P	A	P	A
Central Wavelength		nm	2000±20 or 1550±20 or 1310±20					
Insertion Loss	Max.	dB	11.5	12.5	15	16	19	20.5
Excess Loss	Typ.	dB	1.5	2.0	1.5	2.0	2.5	3.0
Uniformity	Max.	dB	1.5	2.0	2.0	3.0	3.0	3.5
Central Wavelength		nm	850±20					
Insertion Loss	Max.	dB	13	14	17	18	21.5	23
Excess Loss	Typ.	dB	2.0	2.5	2.4	3.0	3.0	4.0
Uniformity	Max.	dB	1.5	2.0	2.0	3.0	3.0	3.5
Operating power	Max.	W	5					
Operating Temperature		°C	-40 to +85					
Storage Temperature		°C	-50 to +85					
Package Type		mm	M8=43x322x480 M11=58x130x132		M8=43x322x480			
			M5=10x80x100: for 0.9mm loose tube or 3mm cable		M6=18x115x141: for 0.9mm loose tube or 3mm cable			

Ordering Information

M	B	M												
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 18=1x8 28=2x8 88=8x8 A6=1x16 B6=2x16 E2=1x32 F2=2x32		Splitting Ratio 0=Even	Grade P=Premium A=A grade	Package H=M5 I=M6 K=M8 P=M11	Fiber Type 2=50/125μm	Pigtail M=0.9mm loose tube L=3mm Cable R=2mm cable F=Adapting Flange	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify N=None	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

Star & Tree 62.5/125μm Multi-Mode Broadband Splitter Module

Product Features

- Low Insertion Loss
- Low Excess Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

Specifications

Parameter		Unit	Nx8(N=1,2,8)		Nx16(N=1,2)		Nx32(N=1,2)	
Grade			P	A	P	A	P	A
Central Wavelength		nm	2000±20 or 1550±20 or 1310±20					
Insertion Loss	Max.	dB	10.5	11.5	14	15	17.5	19
Excess Loss	Typ.	dB	0.6	1.0	0.6	1.0	1.0	1.5
Uniformity	Max.	dB	1.5	2.0	2.0	3.0	2.5	3.5
Central Wavelength		nm	850±20					
Insertion Loss	Max.	dB	12	13	15.5	16.5	19.5	21
Excess Loss	Typ.	dB	1.5	1.8	1.5	1.8	2.0	2.5
Uniformity	Max.	dB	1.5	2.0	2.0	3.0	3.0	3.5
Operating power	Max.	W	5					
Operating Temperature		°C	-40 to +85					
Storage Temperature		°C	-50 to +85					
Package Type		mm	M8=43x322x480 M11=58x130x132		M8=43x322x480			
			M5=10x80x100: for 0.9mm loose tube or 3mm cable		M6=18x115x141: for 0.9mm loose tube or 3mm cable			

Ordering Information

M	B	M												
			Wavelength 4=1550nm 7=1310nm A=850nm P=2000nm S=Specify	Structure 18=1x8 28=2x8 88=8x8 A6=1x16 B6=2x16 E2=1x32 F2=2x32		Splitting Ratio 0=Even	Grade P=Premium A=A grade	Package H=M5 I=M6 K=M8 P=M11	Fiber Type 3=62.5/125μm	Pigtail M=0.9mm loose tube L=3mm Cable R=2mm cable F=Adapting Flange	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify N=None	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. Measured under the stable mode condition with LED source.

COMCORE

MM Fiber Patch Cords

Product Features

- Low Insertion Loss
- High Power Handling
- Excellent Return Loss
- Telecordia GR-326 Compliant

Product Applications

- Power Jumps
- Testing Systems
- MM Fiber Sense Systems
- Optical MM Modules

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Center Wavelength(nm)		nm	780, 830, 980, 1064		1310, 1480, 1550, 2000	
Insertion Loss	Max.	dB	0.60	0.80	0.50	0.60
Operating power	Max.	W	5			
Operating Temperature		°C	-40 to +85			
Storage Temperature		°C	-50 to +85			

Ordering Information

M	F	P	C					0	0			

Wavelength
4=1550nm
5=1480nm
7=1310nm
8=1064nm
9=980nm
L=780nm
K=830nm
P=2000nm
S=Specify

Grade
P=Premium
A=A grade

Cable Type
S=250µm bare fiber
M=0.9mm loose tube
L=3mm cable

Fiber Type
2=50/125µm
3=62.5/125µm
4=105/125µm (NA=0.15)
J=105/125µm (NA=0.22)
K=200/220µm (NA=0.22)
Q=400/440µm (NA=0.22)

Cable Length
1= 1.0m
2= 2.0m
3= 3.0m
4= 4.0m
5= 5.0m
S=Specify

Connector at Port 1
1=FC/PC
2=FC/SPC
3=FC/APC
4=SC/SPC
5=SC/APC
6=ST
7=FC/UPC
8=SC/UPC
9=MU
A=LC/PC
B=SC/PC
C=LC/UPC
D=LC/APC

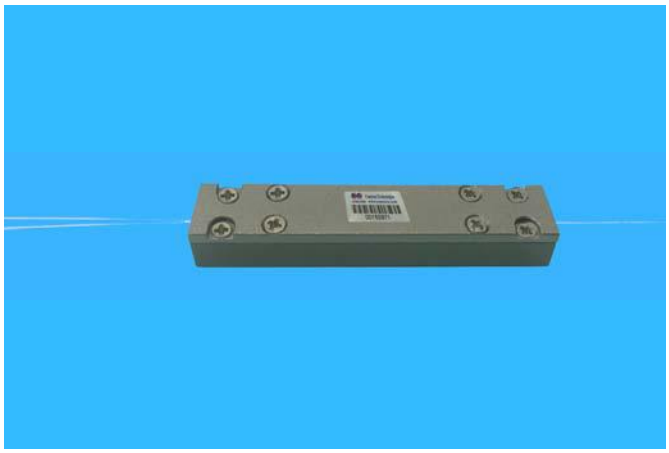
Connector at port 2
0= None
1=FC/PC
2=FC/SPC
3=FC/APC
4=SC/SPC
5=SC/APC
6=ST
7=FC/UPC
8=SC/UPC
9=MU
A=LC/PC
B=SC/PC
C=LC/UPC
D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

Pump Combiners &
Pump and Signal Combiners

2x1 Multimode Pump Combiners



Product Features

- High Power Coupling Efficiency
- Wavelength Insensitive
- High Power Handling
- Custom Configurations Available

Product Applications

- High Power All-Fiber Lasers
- Fiber Laser Combination
- kW Class Fiber Laser
- Industrial & Research

Specifications

Parameter		Unit				
Port Configuration			2x1			
Pump Input Wavelength Range		nm	800-1000			
Transfer Efficiency	Typ.	%	93			
Transfer Efficiency	Min.	%	85			
Operating Power Per Input Channel	Max.	W	5	10	25	50
Operating Temperature		°C	-5 to +75			
Storage Temperature		°C	-50 to +85			
Package Size		mm	S11=Ø4x60	M13=65x12x7.4	M14=100x15x10	

General Configuration for 2x1 Combiner

Configuration	Wavelength (nm)	Input Fiber Type	Output Fiber Type	Transfer Efficiency
2x1	800-1000	105/125 0.15	105/125 0.22	90%
2x1	800-1000	105/125 0.15	200/220 0.22	93%
2x1	800-1000	105/125 0.15	X/125 DCF	93%
2x1	800-1000	105/125 0.22	200/220 0.22	93%
2x1	800-1000	105/125 0.22	X/125 DCF	93%
2x1	800-1000	200/220 0.22	X/125 DCF	93%
2x1	800-1000	200/220 0.22	400/440 0.22	93%

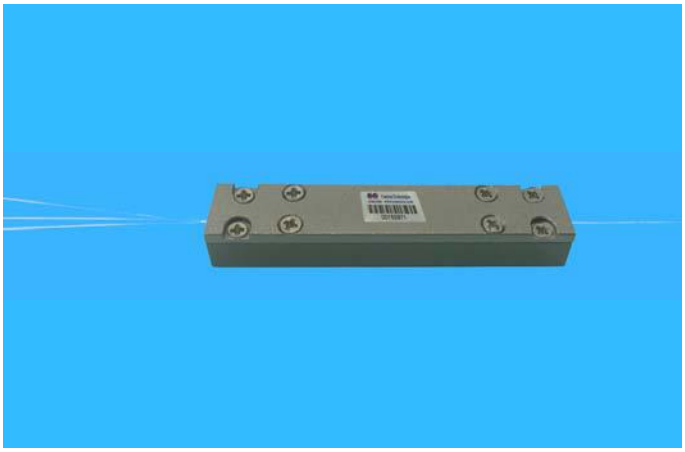
Ordering Information

M	P	C	0	2									
					Operating Power 005=5W 010=10W 025=25W 050=50W 100=100W		Input Fiber Type 1=105/128 0.15 2=105/125 0.22 3=200/220 0.22 S=Specify	Output Fiber Type 1=105/125 0.22 2=200/220 0.22 3=400/440 0.22 4=X/125 DCF S=Specify	Package A=S11 P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify	Connector 0=None

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

3x1 Multimode Pump Combiners



Product Features

- High Power Coupling Efficiency
- Wavelength Insensitive
- High Power Handling
- Custom Configurations Available

Product Applications

- High Power All-Fiber Lasers
- Fiber Laser Combination
- kW Class Fiber Laser
- Industrial & Research

Specifications

Parameter		Unit					
Port Configuration			3x1				
Pump Input Wavelength Range		nm	800-1000				
Transfer Efficiency	Typ.	%	93				
Transfer Efficiency	Min.	%	85				
Operating Power Per Input Channel	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	S11=Ø4x60	M13=65x12x7.4		M14=100x15x10	

General Configuration for 3x1 Combiner

Configuration	Wavelength (nm)	Input Fiber Type	Output Fiber Type	Transfer Efficiency
3x1	800-1000	105/125 0.15	105/125 0.22	90%
3x1	800-1000	105/125 0.15	X/125 DCF	93%
3x1	800-1000	105/125 0.22	200/220 0.22	93%
3x1	800-1000	105/125 0.22	125 0.46	93%
3x1	800-1000	105/125 0.22	X/125 DCF	93%
3x1	800-1000	200/220 0.22	X/125 DCF	93%
3x1	800-1000	200/220 0.22	400/440 0.22	93%

Ordering Information

M	P	C	0	3									

Operating Power
005=5W
010=10W
025=25W
050=50W
100=100W

Input Fiber Type
1=105/125 0.15
2=105/125 0.22
3=200/220 0.22
S=Specify

Output Fiber Type
1=125 0.46
2=105/125 0.22
3=200/220 0.22
4=400/440 0.22
5=X/125 DCF
S=Specify

Package
A=S11
P=M13
Q=M14

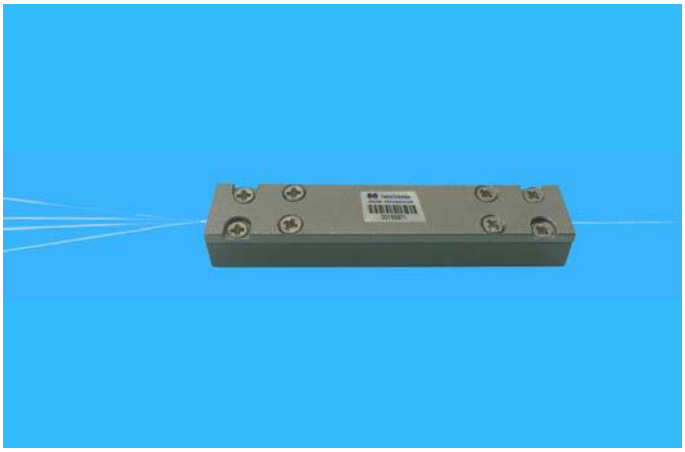
Fiber Length
0=0.5m
1=0.75m
2=1.0m
S=Specify

Connector
0=None

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

4x1 Multimode Pump Combiners



Product Features

- High Power Coupling Efficiency
- Wavelength Insensitive
- High Power Handling
- Custom Configurations Available

Product Applications

- High Power All-Fiber Lasers
- Fiber Laser Combination
- kW Class Fiber Laser
- Industrial & Research

Specifications

Parameter		Unit					
Port Configuration			4x1				
Pump Input Wavelength Range		nm	800-1000				
Transfer Efficiency	Typ.	%	93				
Transfer Efficiency	Min.	%	85				
Operating Power Per Input Channel	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	S11=Ø4x60	M13=65x12x7.4		M14=100x15x10	

General Configuration for 4x1 Combiner

Configuration	Wavelength (nm)	Input Fiber Type	Output Fiber Type	Transfer Efficiency
4x1	800-1000	105/125 0.15	200/220 0.22	90%
4x1	800-1000	105/125 0.15	X/125 DCF	93%
4x1	800-1000	105/125 0.22	200/220 0.22	90%
4x1	800-1000	105/125 0.22	125 0.46	93%
4x1	800-1000	105/125 0.22	X/125 DCF	93%
4x1	800-1000	200/220 0.22	X/125 DCF	93%
4x1	800-1000	200/220 0.22	400/440 0.22	90%

Ordering Information

M	P	C	0	4								

Operating Power
005=5W
010=10W
025=25W
050=50W
100=100W

Input Fiber Type
1=105/125 0.15
2=105/125 0.22
3=200/220 0.22
S=Specify

Output Fiber Type
1=125 0.46
2=200/220 0.22
3=400/440 0.22
4=X/125 DCF
S=Specify

Package
A=S11
P=M13
Q=M14

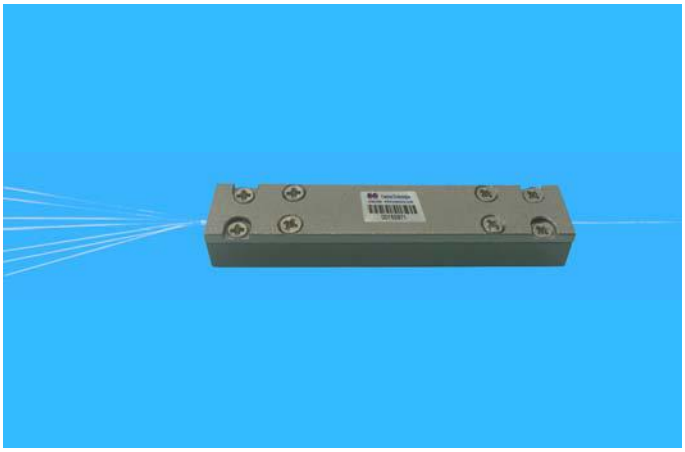
Fiber Length
0=0.5m
1=0.75m
2=1.0m
S=Specify

Connector
0=None

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

7x1 Multimode Pump Combiners



Product Features

- High Power Coupling Efficiency
- Wavelength Insensitive
- High Power Handling
- Custom Configurations Available

Product Applications

- High Power All-Fiber Lasers
- Fiber Laser Combination
- kW Class Fiber Laser
- Industrial & Research

Specifications

Parameter		Unit					
Port Configuration			7x1				
Pump Input Wavelength Range		nm	800-1000				
Transfer Efficiency	Typ.	%	93				
Transfer Efficiency	Min.	%	85				
Operating Power Per Input Channel	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	S11=Ø4x60	M13=65x12x7.4		M14=100x15x10	

General Configuration for 7x1 Combiner

Configuration	Wavelength (nm)	Input Fiber Type	Output Fiber Type	Transfer Efficiency
7x1	800-1000	105/125 0.15	200/220 0.22	93%
7x1	800-1000	105/125 0.15	X/125 DCF	93%
7x1	800-1000	105/125 0.22	200/242 0.22	93%
7x1	800-1000	105/125 0.22	125 0.46	93%
7x1	800-1000	105/125 0.22	X/125 DCF	93%
7x1	800-1000	105/125 0.22	400/440 0.22	93%
7x1	800-1000	200/220 0.22	X/400 DCF	93%
7x1	800-1000	200/242 0.22	X/400 DCF	93%

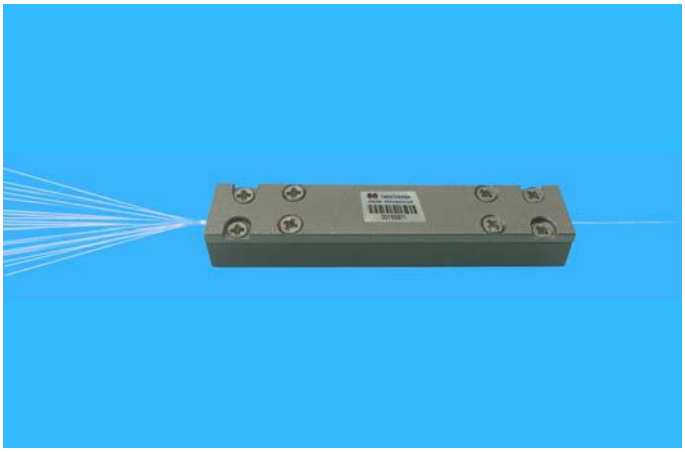
Ordering Information

M	P	C	0	7									
					Operating Power 005=5W 010=10W 025=25W 050=50W 100=100W		Input Fiber Type 1=105/125 0.15 2=105/125 0.22 3=200/220 0.22 4=200/242 0.22 S=Specify	Output Fiber Type 1=125 0.46 2=200/220 0.22 3=200/242 0.22 4=400/440 0.22 5=X/125 DCF 6=X/400 DCF S=Specify	Package A=S11 P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify	Connector 0=None

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

19x1 Multimode Pump Combiners



Product Features

- High Power Coupling Efficiency
- Wavelength Insensitive
- High Power Handling
- Custom Configurations Available
-

Product Applications

- High Power All-Fiber Lasers
- Fiber Laser Combination
- kW Class Fiber Laser
- Industrial & Research

Specifications

Parameter		Unit					
Port Configuration			19x1				
Pump Input Wavelength Range		nm	800-1000				
Transfer Efficiency	Typ.	%	93				
Transfer Efficiency	Min.	%	85				
Operating Power Per Input Channel	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	S11=Ø4x60	M13=65x12x7.4		M14=100x15x10	

General Configuration for 19x1 Combiner

Configuration	Wavelength (nm)	Input Fiber Type	Output Fiber Type	Transfer Efficiency
19x1	800-1000	105/125 0.15	400/440 0.22	93%
19x1	800-1000	105/125 0.15	X/200 DCF	93%
19x1	800-1000	105/125 0.22	X/250 DCF	93%
19x1	800-1000	105/125 0.22	X/400 DCF	93%

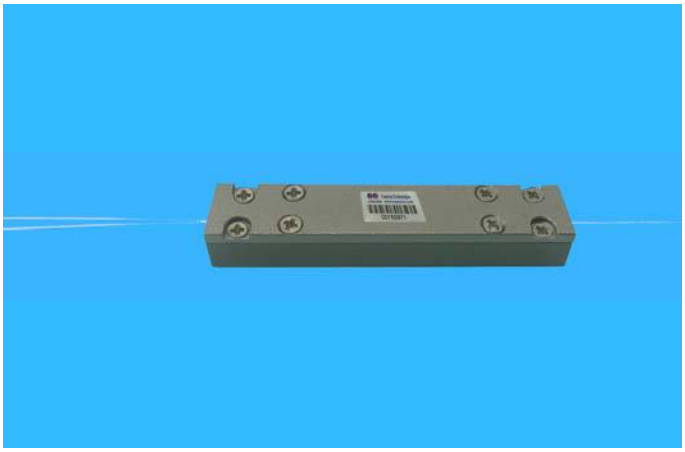
Ordering Information

M	P	C	0	J								
					Operating Power 005=5W 010=10W 025=25W 050=50W 100=100W 150=150W		Input Fiber Type 1=105/125 0.15 2=105/125 0.22 S=Specify	Output Fiber Type 1=400/440 0.22 2=X/200 DCF 3=X/250 DCF 4=X/400 DCF S=Specify	Package A=S11 P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify	Connector 0=None

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

(1+1) x1 PM Pump and Signal Combiners



Product Features

- High Power Transfer Efficiency
- Preservation of Mode Content
- Wavelength Insensitive
- Custom Configurations Available

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit					
Port Configuration			(1+1) x1				
Pump Wavelength		nm	800-1000				
Signal Wavelength		nm	1030-1080				1530-1580
Signal Insertion loss	Max.	dB	0.5				
Pump Transfer efficiency	Typ.	%	90-95				
Pump Transfer efficiency	Min.	%	85				
PER	Min.	dB	18				
Return loss	Min.	dB	45				
Operating power handling	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	M13=65x12x7.4			M14=100x15x10	

General Configuration for (1+1) x1 Combiner

Configuration	Signal Wavelength (nm)	Pump fiber	Input signal fiber	Output fiber	Signal IL	Transfer Efficiency
(1+1) x1	1030-1080	105/125 0.22	PM5/130 DC	PM6/125 DC	0.3dB	90%
(1+1) x1	1030-1080	105/125 0.22	PM5/130 DC	PM10/125 DC	0.5dB	90%
(1+1) x1	1030-1080	105/125 0.22	PM6/125 DC	PM6/125 DC	0.5dB	90%
(1+1) x1	1030-1080	105/125 0.22	PM10/125 DC	PM10/125 DC	0.3dB	90%
(1+1) x1	1030-1080	105/125 0.22	PM20/125 DC	PM20/125 DC	0.7dB	90%
(1+1) x1	1030-1080	200/220 0.22	PM25/250 DC	PM25/250 DC	0.5dB	90%
(1+1) x1	1030-1080	200/220 0.22	PM20/400 DC	PM20/400 DC	0.5dB	90%
(1+1) x1	1530-1580	105/125 0.22	PM12/130 DC	PM12/130 DC	0.5dB	90%
(1+1) x1	1530-1580	105/125 0.22	PM12/130 DC	PM25/300 DC	0.5dB	90%

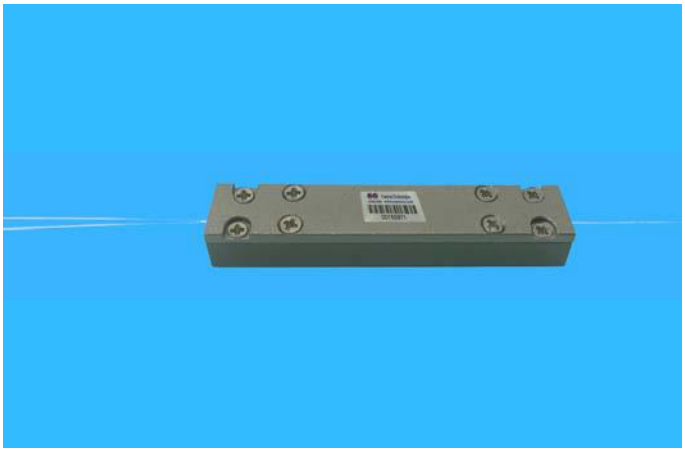
Order Information

P	M	C	1	1								
					Signal Wavelength 1=1030-1080 2=1530-1580	Operating Power 05=5W 10=10W 25=25W 50=50W 00=100W	Pump Input 1=105/125 0.22 2=200/220 0.22 S=Specify	Signal Input 1=PM5/130 DC 2=PM6/125 DC 3=PM10/125 DC 4=PM20/125 DC 5=PM25/250 DC 6=PM20/400 DC 7=PM12/130 DC S=Specify	Output 1=PM6/125 DC 2=PM10/125 DC 3=PM20/125 DC 4=PM25/250 DC 5=PM20/400 DC 6=PM12/130 DC 7=PM25/300 DC S=Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

(1+1) x1 Pump and Signal Combiners



Product Features

- High Power Transfer Efficiency
- Preservation of Mode Content
- Wavelength Insensitive
- Custom Configurations Available

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit					
Port Configuration			(1+1) x1				
Pump Wavelength		nm	800-1000				
Signal Wavelength		nm	1030-1080				1530-1580
Signal Insertion loss	Max.	dB	0.5				
Pump Transfer efficiency	Typ.	%	90-95				
Pump Transfer efficiency	Min.	%	85				
Return loss	Min.	dB	45				
Operating power handling	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	M13=65x12x7.4				M14=100x15x10

General Configuration for (1+1) x1 Combiner

Configuration	Signal Wavelength (nm)	Pump fiber	Input signal fiber	Output fiber	Signal IL	Transfer Efficiency
(1+1) x1	1030-1080	105/125 0.22	HI1060	10/125 DC	0.5dB	90%
(1+1) x1	1030-1080	105/125 0.22	5/130 DC	6/125 DC	0.3dB	90%
(1+1) x1	1030-1080	105/125 0.22	5/130 DC	10/125 DC	0.5dB	90%
(1+1) x1	1030-1080	105/125 0.22	6/125 DC	6/125 DC	0.5dB	90%
(1+1) x1	1030-1080	105/125 0.22	10/125 DC	10/125 DC	0.3dB	90%
(1+1) x1	1030-1080	105/125 0.22	20/125 DC	20/125 DC	0.7dB	90%
(1+1) x1	1030-1080	200/220 0.22	25/250 DC	25/250 DC	0.5dB	90%
(1+1) x1	1030-1080	200/220 0.22	20/400 DC	20/400 DC	0.5dB	90%
(1+1) x1	1530-1580	105/125 0.22	12/130 DC	12/130 DC	0.5dB	90%
(1+1) x1	1530-1580	105/125 0.22	12/130 DC	25/300 DC	0.5dB	90%

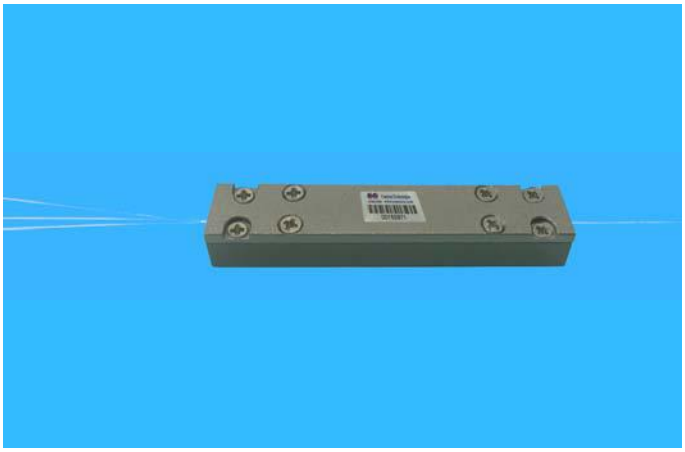
Order Information

P	S	C	1	1								
					Signal Wavelength 1=1030-1080 2=1530-1580	Operating Power 05=5W 10=10W 25=25W 50=50W 00=100W	Pump Input 1=105/125 0.22 2=200/220 0.22 S=Specify	Signal Input 1=HI1060 2=5/130 DC 3=6/125 DC 4=10/125 DC 5=20/125 DC 6=25/250 DC 7=20/400 DC 8=12/130 DC S=Specify	Output 1=6/125 DC 2=10/125 DC 3=20/125 DC 4=25/250 DC 5=20/400 DC 6=12/130 DC 7=25/300 DC S=Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

(2+1) x1 PM Pump and Signal Combiners



Product Features

- High Power Transfer Efficiency
- Preservation of Mode Content
- Wavelength Insensitive
- Custom Configurations Available
-

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit					
Port Configuration			(2+1) x1				
Pump Wavelength		nm	800-1000				
Signal Wavelength		nm	1030-1080			1530-1580	
Signal Insertion loss	Max.	dB	0.7				
Pump Transfer efficiency	Typ.	%	90-95				
Pump Transfer efficiency	Min.	%	85				
PER	Min.	dB	18				
Return loss	Min.	dB	45				
Operating power handling	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	M13=65x12x7.4			M14=100x15x10	

General Configuration for (2+1) x1 Combiner

Configuration	Signal Wavelength (nm)	Pump fiber	Input signal fiber	Output fiber	Signal IL	Transfer Efficiency
(2+1) x1	1030-1080	105/125 0.22	PM980	PM10/125 DC	0.5dB	90%
(2+1) x1	1030-1080	105/125 0.22	PM 05/130 DC	PM 06/125 DC	0.3dB	90%
(2+1) x1	1030-1080	105/125 0.22	PM 05/130 DC	PM 10/125 DC	0.5dB	90%
(2+1) x1	1030-1080	105/125 0.22	PM 06/125 DC	PM 06/125 DC	0.5dB	90%
(2+1) x1	1030-1080	105/125 0.22	PM 10/125 DC	PM 10/125 DC	0.3dB	90%
(2+1) x1	1030-1080	105/125 0.22	PM 20/125 DC	PM 20/125 DC	0.7dB	90%
(2+1) x1	1030-1080	200/220 0.22	PM 25/250 DC	PM 25/250 DC	0.5dB	90%
(2+1) x1	1030-1080	200/220 0.22	PM 20/400 DC	PM 20/400 DC	0.5dB	90%
(2+1) x1	1530-1580	105/125 0.22	PM 12/130 DC	PM 12/130 DC	0.5dB	90%
(2+1) x1	1530-1580	105/125 0.22	PM 12/130 DC	PM 25/300 DC	0.5dB	90%

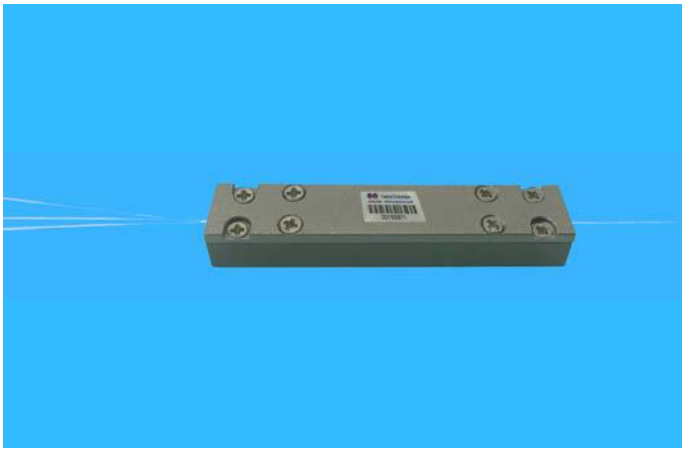
Order Information

P	M	C	2	1								
					Signal Wavelength 1=1030-1080 2=1530-1580	Operating Power 05=5W 10=10W 25=25W 50=50W 00=100W	Pump Input 1=105/125 0.22 2=200/220 0.22 S=Specify	Signal Input 1=PM980 2=PM10/125 DC 3=PM20/125 DC 4=PM25/250 DC 5=PM20/400 DC S=Specify	Output 1=PM10/125 DC 2=PM20/125 DC 3=PM25/250 DC 4=PM20/400 DC 5=PM25/300 DC S=Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

(2+1) x1 Pump and Signal Combiners



Product Features

- High Power Transfer Efficiency
- All Fiber Construction
- Wavelength Insensitive
- Custom Configurations Available

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit					
Port Configuration			(2+1) x1				
Pump Wavelength		nm	800-1000				
Signal Wavelength		nm	1030-1080				1530-1580
Signal Insertion loss	Max.	dB	0.5				
Pump Transfer efficiency	Typ.	%	90-95				
Pump Transfer efficiency	Min.	%	85				
Return loss	Min.	dB	45				
Operating power handling	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	M13=65x12x7.4				M14=100x15x10

General Configuration for (2+1) x1 Combiner

Configuration	Signal Wavelength (nm)	Pump fiber	Input signal fiber	Output fiber	Signal IL	Transfer Efficiency
(2+1) x1	1030-1080	105/125 0.22	HI1060	10/125 DC	0.5dB	90%
(2+1) x1	1030-1080	105/125 0.22	5/130 DC	6/125 DC	0.3dB	90%
(2+1) x1	1030-1080	105/125 0.22	5/130 DC	10/125 DC	0.5dB	90%
(2+1) x1	1030-1080	105/125 0.22	6/125 DC	6/125 DC	0.5dB	90%
(2+1) x1	1030-1080	105/125 0.22	10/125 DC	10/125 DC	0.3dB	90%
(2+1) x1	1030-1080	105/125 0.22	20/125 DC	20/125 DC	0.7dB	90%
(2+1) x1	1030-1080	200/220 0.22	25/250 DC	25/250 DC	0.5dB	90%
(2+1) x1	1030-1080	200/220 0.22	20/400 DC	20/400 DC	0.5dB	90%
(2+1) x1	1530-1580	105/125 0.22	12/130 DC	12/130 DC	0.5dB	90%
(2+1) x1	1530-1580	105/125 0.22	12/130 DC	25/300 DC	0.5dB	90%

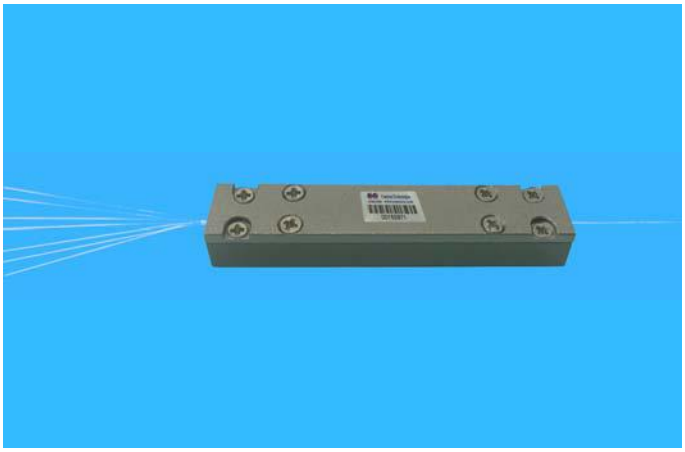
Order Information

P	S	C	2	1								
					Signal Wavelength 1=1030-1080 2=1530-1580	Operating Power 05=5W 10=10W 25=25W 50=50W 00=100W	Pump Input 1=105/125 0.22 2=200/220 0.22 S=Specify	Signal Input 1=HI1060 2=5/130 DC 3=6/125 DC 4=10/125 DC 5=20/125 DC 6=25/250 DC 7=20/400 DC 8=12/130 DC S=Specify	Output 1=6/125 DC 2=10/125 DC 3=20/125 DC 4=25/250 DC 5=20/400 DC 6=12/130 DC 7=25/300 DC S=Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

(6+1) x1 PM Pump and Signal Combiners



Product Features

- High Power Transfer Efficiency
- All Fiber Construction
- Wavelength Insensitive
- Custom Configurations Available

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit					
Port Configuration			(6+1) x1				
Pump Wavelength		nm	800-1000				
Signal Wavelength		nm	1030-1080				1530-1580
Signal Insertion loss	Max.	dB	0.7				
Pump Transfer efficiency	Typ.	%	90-95				
Pump Transfer efficiency	Min.	%	85				
PER	Min.	dB	18				
Return loss	Min.	dB	45				
Operating power handling	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	M13=65x12x7.4			M14=100x15x10	

General Configuration for (6+1) x1 Combiner

Configuration	Signal Wavelength (nm)	Pump fiber	Input signal fiber	Output fiber	Signal IL	Transfer Efficiency
(6+1) x1	1030-1080	105/125 0.22	PM980	PM 10/125 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	PM5/130 DC	PM 5/130 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	PM 5/130 DC	PM 10/125 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	PM 10/125 DC	PM 10/125 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	PM 10/125 DC	PM 30/250 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	PM 20/125 DC	PM 25/250 DC	0.7dB	93%
(6+1) x1	1030-1080	200/220 0.22	PM 20/400 DC	PM 20/400 DC	0.7dB	93%
(6+1) x1	1030-1080	200/242 0.22	PM 20/400 DC	PM 20/400 DC	0.7dB	93%
(6+1) x1	1530-1580	105/125 0.22	PM 12/130 DC	PM 12/130 DC	0.7dB	93%
(6+1) x1	1530-1580	105/125 0.22	PM 12/130 DC	PM 25/300 DC	0.7dB	93%

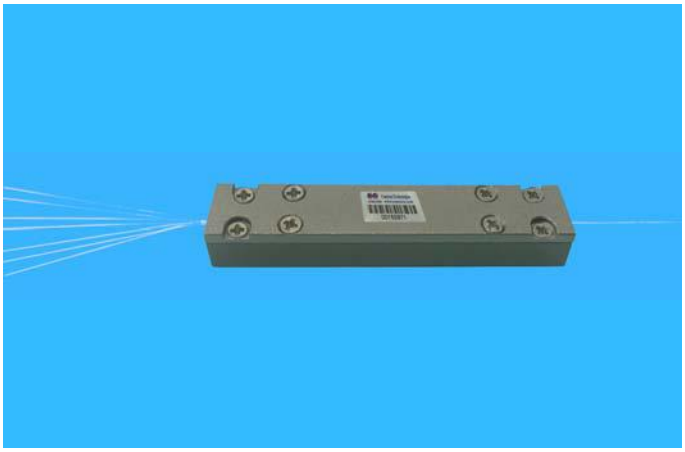
Order Information

P	M	C	6	1								
					Signal Wavelength 1=1030-1080 2=1530-1580	Operating Power 05=5W 10=10W 25=25W 50=50W 00=100W	Pump Input 1=105/125 0.22 2=200/220 0.22 3=200/242 0.22 S=Specify	Signal Input 1=PM980 2=PM5/130 DC 3=PM10/125 DC 4=PM20/125 DC 5=PM20/400 DC S=Specify	Output 1=PM10/125 DC 2=PM25/250 DC 3=PM30/250 DC 4=PM20/400 DC 5=PM25/300 DC S=Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

(6+1) x1 Pump and Signal Combiners



Product Features

- High Power Transfer Efficiency
- All Fiber Construction
- Wavelength Insensitive
- Custom Configurations Available

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit					
Port Configuration			(6+1) x1				
Pump Wavelength		nm	800-1000				
Signal Wavelength		nm	1030-1080				1530-1580
Signal Insertion loss	Max.	dB	0.7				
Pump Transfer efficiency	Typ.	%	90-95				
Pump Transfer efficiency	Min.	%	85				
Return loss	Min.	dB	45				
Operating power handling	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	M13=65x12x7.4				M14=100x15x10

General Configuration for (6+1) x1 Combiner

Configuration	Signal Wavelength (nm)	Pump fiber	Input signal fiber	Output fiber	Signal IL	Transfer Efficiency
(6+1) x1	1030-1080	105/125 0.22	HI1060	10/125 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	5/130 DC	5/130 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	5/130 DC	10/125 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	10/125 DC	10/125 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	10/125 DC	30/250 DC	0.7dB	93%
(6+1) x1	1030-1080	105/125 0.22	20/125 DC	25/250 DC	0.7dB	93%
(6+1) x1	1030-1080	200/220 0.22	20/400 DC	20/400 DC	0.7dB	93%
(6+1) x1	1030-1080	200/242 0.22	20/400 DC	20/400 DC	0.7dB	93%
(6+1) x1	1530-1580	105/125 0.22	12/130 DC	12/130 DC	0.7dB	93%
(6+1) x1	1530-1580	105/125 0.22	12/130 DC	25/300 DC	0.7dB	93%

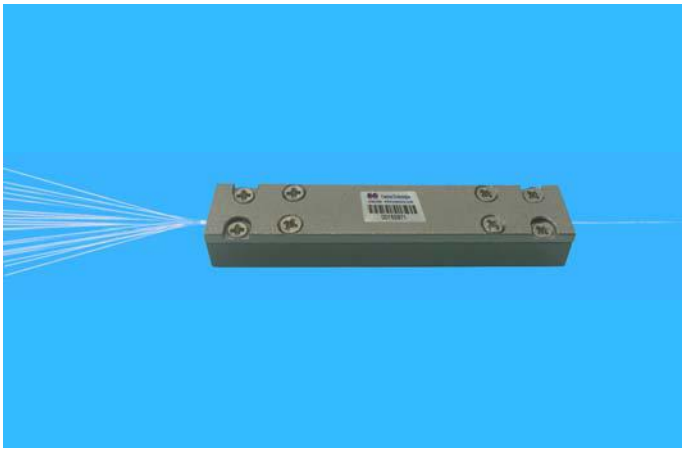
Order Information

P	S	C	6	1								
					Signal Wavelength 1=1030-1080 2=1530-1580	Operating Power 05=5W 10=10W 25=25W 50=50W 00=100W	Pump Input 1=105/125 0.22 2=200/220 0.22 3=200/242 0.22 S=Specify	Signal Input 1=HI1060 2=5/130 DC 3=10/125 DC 4=20/125 DC 5=20/400 DC 6=12/130 DC S=Specify	Output 1=5/130 DC 2=10/125 DC 3=25/250 DC 4=30/250 DC 5=20/400 DC 6=12/130 DC 7=25/300 DC S=Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

(18+1) x1 PM Pump and Signal Combiners



Product Features

- High Power Transfer Efficiency
- All Fiber Construction
- Wavelength Insensitive
- Custom Configurations Available

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit					
Port Configuration			(18+1) x1				
Pump Wavelength		nm	800-1000				
Signal Wavelength		nm	1030-1080			1530-1580	
Signal Insertion loss	Max.	dB	0.8				
Pump Transfer efficiency	Typ.	%	90-95				
Pump Transfer efficiency	Min.	%	85				
PER	Min.	dB	18				
Return loss	Min.	dB	45				
Operating power handling	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	M13=65x12x7.4			M14=100x15x10	

General Configuration for (18+1) x1 Combiner

Configuration	Signal Wavelength (nm)	Pump fiber	Input signal fiber	Output fiber	Signal IL	Transfer Efficiency
(18+1) x1	1030-1080	105/125 0.22	PM5/130 DC	PM10/200 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	PM5/130 DC	PM20/200 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	PM5/130 DC	PM25/250 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	PM5/130 DC	PM30/250 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	PM10/125 DC	PM25/250 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	PM10/125 DC	PM30/250 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	PM10/125 DC	PM20/400 DC	0.8dB	93%

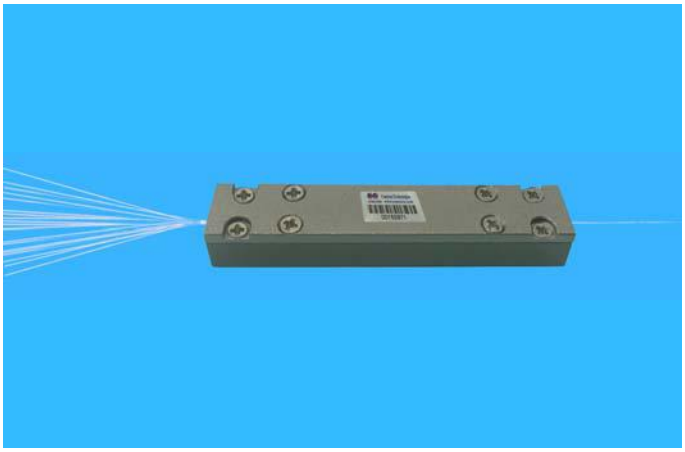
Order Information

P	M	C	I	1							
					Signal Wavelength 1=1030-1080 2=1530-1580	Operating Power 05=5W 10=10W 25=25W 50=50W 00=100W	Pump Input 1=105/125 0.22 S=Specify	Signal Input 1=PM5/130 DC 2=PM10/125 DC S=Specify	Output 1=PM10/200 DC 2=PM20/200 DC 3=PM25/250 DC 4=PM30/250 DC 5=PM20/400 DC S=Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

(18+1) x1 Pump and Signal Combiners



Product Features

- High Power Transfer Efficiency
- All Fiber Construction
- Wavelength Insensitive
- Custom Configurations Available

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit					
Port Configuration			(18+1) x1				
Pump Wavelength		nm	800-1000				
Signal Wavelength		nm	1030-1080				1530-1580
Signal Insertion loss	Max.	dB	0.8				
Pump Transfer efficiency	Typ.	%	90-95				
Pump Transfer efficiency	Min.	%	85				
Return loss	Min.	dB	45				
Operating power handling	Max.	W	5	10	25	50	100
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Size		mm	M13=65x12x7.4			M14=100x15x10	

General Configuration for (18+1) x1 Combiner

Configuration	Signal Wavelength (nm)	Pump fiber	Input signal fiber	Output fiber	Signal IL	Transfer Efficiency
(18+1) x1	1030-1080	105/125 0.22	5/130 DC	10/200 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	5/130 DC	20/200 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	5/130 DC	25/250 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	5/130 DC	30/250 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	10/125 DC	25/250 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	10/125 DC	30/250 DC	0.8dB	93%
(18+1) x1	1030-1080	105/125 0.22	10/125 DC	20/400 DC	0.8dB	93%

Order Information

P	S	C	I	1								
					Signal Wavelength 1=1030-1080 2=1530-1580	Operating Power 05=5W 10=10W 25=25W 50=50W 00=100W	Pump Input 1=105/125 0.22 S=Specify	Signal Input 1=5/130 DC 2=10/125 DC S=Specify	Output 1=10/200 DC 2=20/200 DC 3=25/250 DC 4=30/250 DC 5=20/400 DC S=Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

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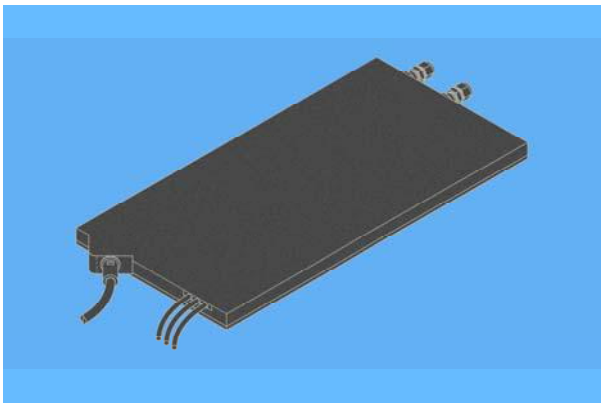
Nx1 High Power Laser Combiner



Product Features

- High coupling efficiency
- High Power Handling
- Custom Configurations Available

Product Applications

- High Power All-Fiber Lasers
- Fiber Laser Combination
- kW Class Fiber Laser

Specifications

Parameter		Unit					
Port Configuration			3x1	4x1	5x1	6x1	7x1
Wavelength		nm	1040-1080				
Transfer Efficiency	Typ.	%	98				
Transfer Efficiency	Min.	%	96				
Operating Power	Max.	kW	3			6	
Operating Temperature		°C	-5 to +75				
Storage Temperature		°C	-50 to +85				
Package Type			High Power Module with cooling plate				
Package Size		mm	M15=610x305x52				

General Configuration

Port Configuration	Input Fiber Type	Output Fiber Type	Transfer Efficiency	M^2 （Max.）
3x1	20/400DCF	50/360 0.22	96-98%	7
3x1	x/125	50/360 0.22	96-98%	7
4x1	20/400DCF	50/360 0.22	96-98%	7
7x1	20/400DCF	100/360 0.22	96-98%	13

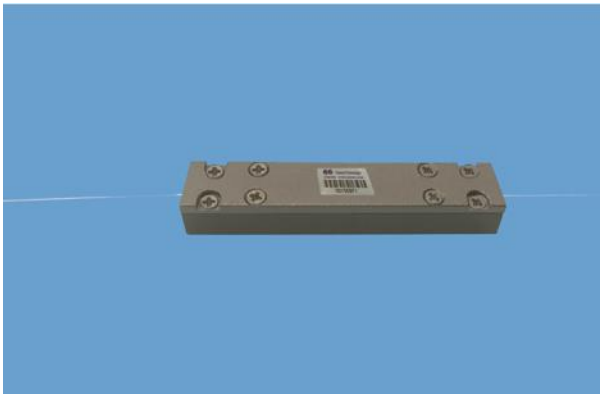
Ordering Information

H	P	L	C																
				Structure 03= 3x1 04= 4x1 05= 5x1 06= 6x1 07= 7x1		Operating Power 03=3kW 06=6kW		Input Fiber Type 1=x/125 2=20/400 DCF S=Specify		Output Fiber Type 1=50/360 0.22 2=100/360 0.22 S=Specify		Package U=M15		Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify		Connector 0=None	

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

COMCORE

Mode Field Adaptor



Product Features

- High Power Transfer Efficiency
- Preservation of Mode Content
- Wavelength Insensitive
- High Power Handling

Product Applications

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Specifications

Parameter		Unit				
Port Configuration			1x1			
Signal Wavelength		nm	1030-1080			1530-1580
Signal Insertion loss	Max.	dB	0.7			
PER	Min.	dB	18			
Return loss	Min.	dB	45			
Operating power handling	Max.	W	5	10	25	50
Operating Temperature		°C	-5 to +75			
Storage Temperature		°C	-50 to +85			
Package Type		mm	M13=65x12x7.4		M14=100x15x10	

General Configuration

Signal Wavelength	Input signal fiber	Output Signal fiber	Max. Signal IL (dB)	Typical Signal IL (dB)
1030-1080	HI1060	25/250 0.06/0.46	0.5	0.1
1030-1080	HI1060	25/250 0.11/0.46	0.5	0.1
1030-1080	HI1060	20/400 0.06/0.46	0.5	0.1
1030-1080	PM980	PM25/250 0.06/0.46	0.5	0.1
1030-1080	PM980	PM25/250 0.11/0.46	0.5	0.1
1030-1080	PM980	PM20/400 0.06/0.46	0.5	0.1
1030-1080	10/125 0.08/0.46	25/250 0.06/0.46	0.5	0.1
1030-1080	10/125 0.08/0.46	25/250 0.11/0.46	0.5	0.1
1030-1080	10/125 0.08/0.46	20/400 0.06/0.46	0.5	0.1
1030-1080	PM10/125 0.08/0.46	PM25/250 0.06/0.46	0.5	0.1

Order Information

M	F	A	1	1								
					Signal Wavelength 1=1030-1080 2=1530-1580	Direction 1=Forward 2=Backward	Operating Power 05=5w 10=10w 25=20w 50=50w	Input Fiber 1=HI1060 2=PM980 3=10/125 0.08/0.46 4=PM10/125 0.08/0.46 5=PM 20/400 DC S= Specify	Output Fiber 1=25/250 0.11/0.46 2=20/400 0.06/0.46 3=PM25/250 0.06/0.46 4=PM25/250 0.11/0.46 5=20/400 0.06/0.46 S= Specify	Package P=M13 Q=M14	Fiber Length 0=0.5m 1=0.75m 2=1.0m S= Specify

Note: 1. Configuration can be customized for different applications.
2. All specifications are subject to change without notice.

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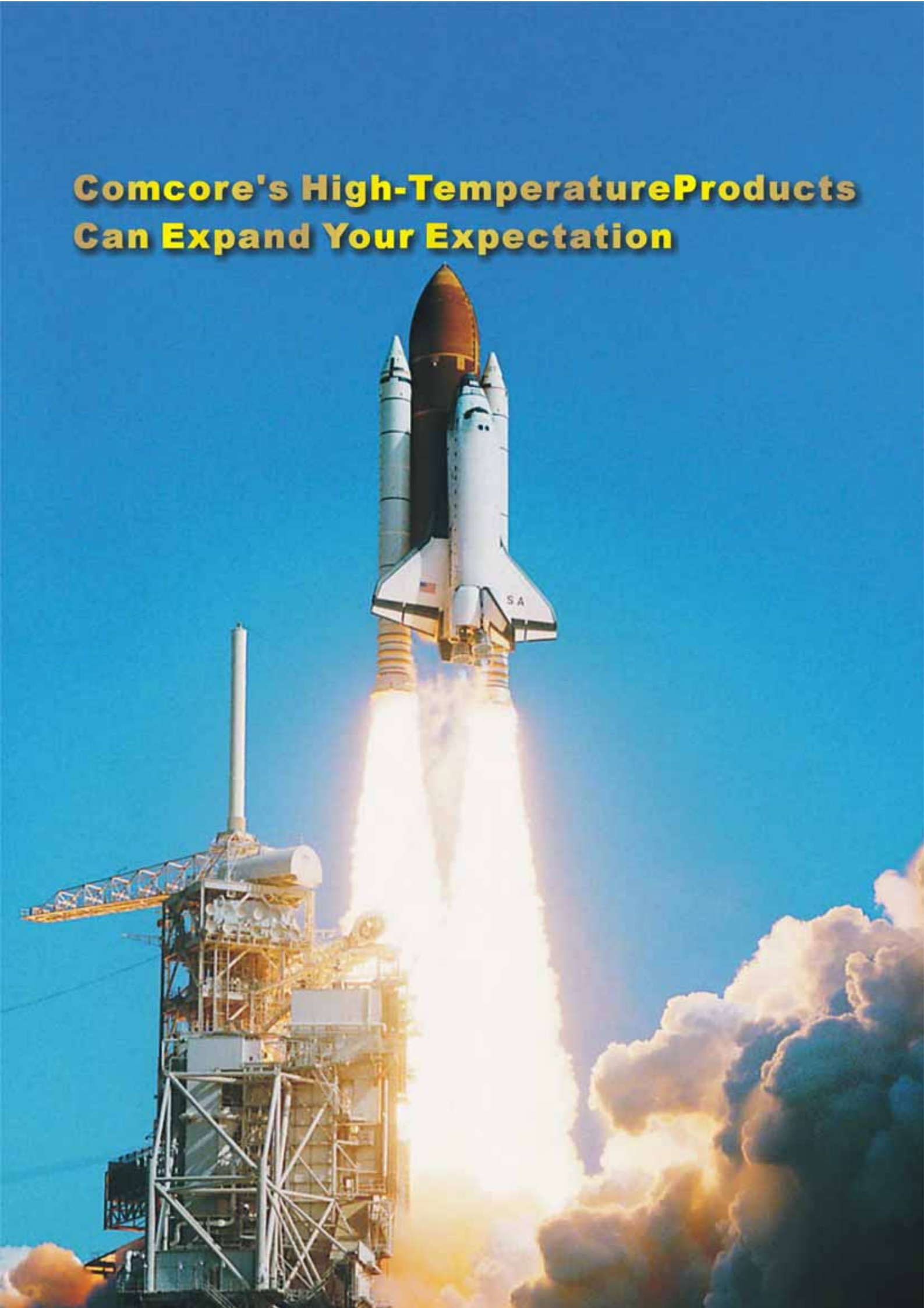
Comcore's High-TemperatureProducts Can Expand Your Expectation



1310/1550nm High Temperature Single Mode Fiber WDM

Product Features

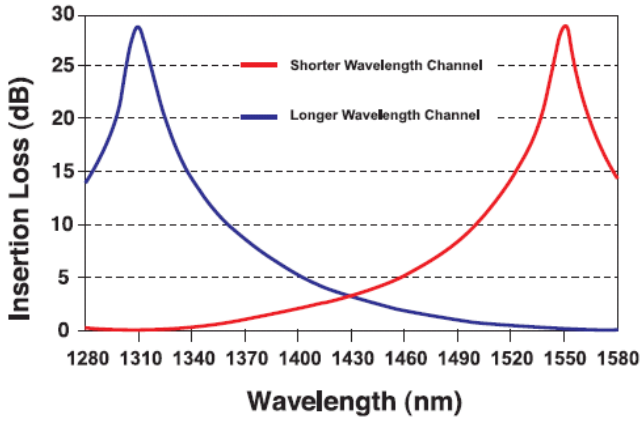
- High Sustained Temperature
- Low PDL
- High Isolation
- High Return Loss
- Stable and Reliable

Product Applications

- Petroleum Service Systems
- Military Applications
- Special Optical Network
- Aerospace Industry

Specifications			1310/1550nm	
Parameter		Unit	Premium	A grade
Shorter Wavelength Channel		nm	1310±15	
Insertion Loss	Max.	dB	0.3	0.5
PDL	Max.	dB	0.1	0.15
Isolation @ 1550±15 nm	Min.	dB	17	15
Longer Wavelength Channel		nm	1550±15	
Insertion Loss	Max.	dB	0.3	0.5
PDL	Max.	dB	0.1	0.15
Isolation @ 1310±15 nm	Min.	dB	17	15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +200	
Storage Temperature		°C	-50 to +200	
Package Type		mm	S6	Ø3x54: for bare fiber
Operating Temperature		°C	+200 to +300	
Storage Temperature		°C	+200 to +300	
Fiber Type			High Temperature SMF	
Package Type		mm	M12	7.5x9x62: for bare fiber

Typical Spectrum



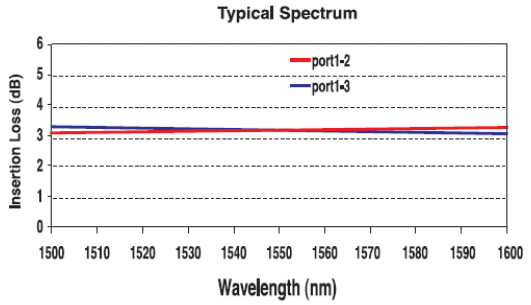
Ordering Information

H	T	W	D	M				0	0					
					Wavelength 5=1310nm/ 1550nm	Structure 1=1x2 2=2x2				Grade P=Premium A=A grade	Package 5=S6 with 155µm bare fiber pigtail O=M12 with 155µm bare fiber pigtail	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) High Temperature Single Mode Broadband Splitter



Product Features

- High Sustained Temperature
- Low PDL
- High Directivity
- Stable and Reliable

Product Applications

- Aerospace
- Petroleum Service Systems
- Military Applications
- Special Optical Network

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.1	0.15
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +200	
Storage Temperature		°C	-50 to +200	
Package Type		mm	S6	Ø3x54: for bare fiber
Operating Temperature		°C	+200 to +300	
Storage Temperature		°C	+200 to +300	
Fiber Type			High Temperature SMF	
Package Type		mm	M12	7.5x9x62: for bare fiber

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.1	7.4	1.3	8.0
90:10	0.6	10.8	0.8	12.0
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

Ordering Information

H	T	S	B	S									
					Wavelength 4=1550nm 7=1310nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 … 50=50:50	Grade P=Premium A=A grade	Package 5=S6 with 155μm bare fiber pigtail O=M12 with 155μm bare fiber pigtail	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

1x2(2x2) High Temperature Single Mode Narrowband Splitter

Product Features

- High Sustained Temperature
- Low PDL
- High Directivity
- Stable and Reliable

Product Applications

- Aerospace
- Petroleum Service Systems
- Military Applications
- Special Optical Network

Specifications			Splitting Ratio:	50:50
Parameter		Unit	Premium	A grade
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.6	1.0
PDL	Max.	dB	0.05	0.1
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +200	
Storage Temperature		°C	-50 to +200	
Package Type		mm	S6	Ø3x54: for bare fiber
Operating Temperature		°C	+200 to +300	
Storage Temperature		°C	+200 to +300	
Fiber Type			High Temperature SMF	
Package Type		mm	M12	7.5x9x62: for bare fiber

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.1	7.4	1.3	8.0
90:10	0.6	10.8	0.8	12.0
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

Ordering Information

H	T	S	N	S									
					Wavelength 4=1550nm 7=1310nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 … 50=50:50		Grade P=Premium A=A grade	Package 5=S6 with 155μm bare fiber pigtail O=M12 with 155μm bare fiber pigtail	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

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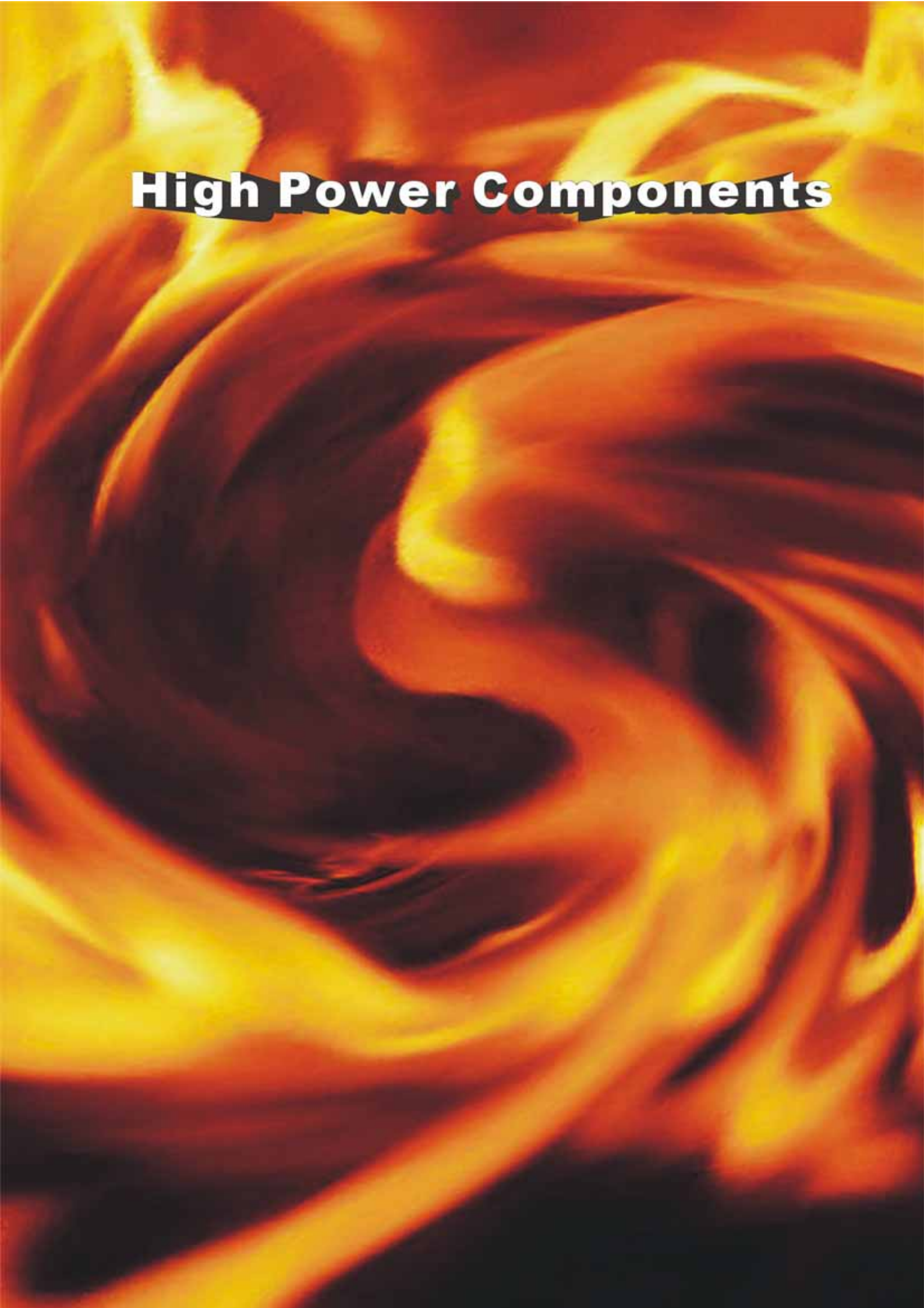
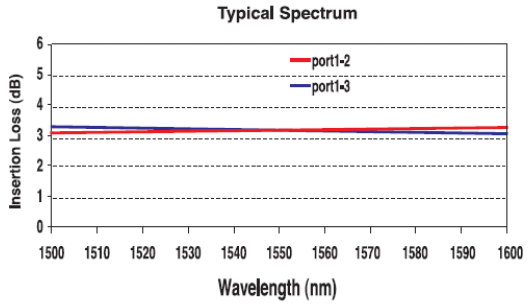

High Power Components

High Power 1x2(2x2) Single Mode Broadband Splitter



Product Features

- Low PDL
- Low Insertion Loss
- High Power Endured
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

Specifications			Splitting Ratio: 50:50	
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±40	
Insertion Loss	Max.	dB	3.4	
Excess Loss	Typ.	dB	0.05	
Uniformity	Max.	dB	0.6	
PDL	Max.	dB	0.1	
Operating power	Min.	W	5	
	Max.	W	10	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.1	7.4	1.3	8.0
90:10	0.6	10.8	0.8	12.0
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

Ordering Information

H	P	B	S										
				Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 … 50=50:50	Package A=S11 B=S12 D=M1	Fiber Type 1=G652 or Equivalent H=SM1950	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

High Power 1x2(2x2) Single Mode Narrowband Splitter

Product Features

- Low PDL
- Low Insertion Loss
- High Power Endured
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor
- EDFA Module

Specifications			Splitting Ratio:	50:50
Port Configuration			1x2 or 2x2	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	3.4	
Excess Loss	Typ.	dB	0.07	
Uniformity	Max.	dB	0.6	
PDL	Max.	dB	0.1	
Operating power	Min.	W	5	
	Max.	W	10	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

Splitting Ratio & Insertion Loss Conversion Table

Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
60:40	2.5	4.4	2.8	4.8
70:30	1.8	5.6	2.0	6.1
80:20	1.1	7.4	1.3	8.0
90:10	0.6	10.8	0.8	12.0
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

Ordering Information

H	P	N	S									
				Wavelength 1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm R=1030nm 9=980nm A=850nm L=780nm P=2000nm S=Specify	Structure 1=1x2 2=2x2	Splitting Ratio 05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 ... 50=50:50	Package A=S11 B=S12 D=M1	Fiber Type 1=G652 or Equivalent 5=980-20 6=HI1060 7=HI1060 FLEX 8=980-16 9=HI780C	Pigtail S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.

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High Power 980nm/C Band WDM

Product Features

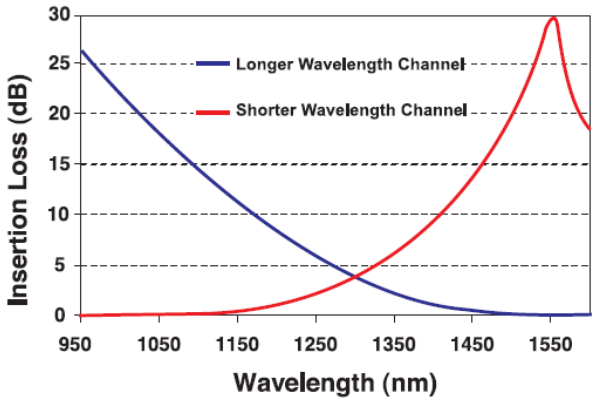
- Ultra-Low PDL
- Ultra-Low Insertion Loss
- High Isolation
- High Return Loss
- High Power Endured
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980nm/C Band	
Shorter Wavelength Channel		nm	960 to 990	
Insertion Loss	Max.	dB	0.1	
PDL	Max.	dB	0.05	
Isolation @ C band	Min.	dB	20	
Longer Wavelength Channel		nm	C Band (1528 to 1565)	
Insertion Loss	Max.	dB	0.1	
PDL	Max.	dB	0.05	
Isolation @ 960 to 990 nm	Min.	dB	20	
Operating power	Min.	W	5	
	Max.	W	10	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S11	Ø4x60: for bare fiber
			S12	Ø4x70: for 0.9mm loose tube
			M1	9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable

980nm/C Band WDM Typical Spectrum



Ordering Information

H	P	S	W			0	0						

Wavelength	Structure	Package	Fiber Type	Pigtail	Fiber Length	Connector
1=980nm/ C Band	1=1x2 2=2x2	A=S11 B=S12 D=M1	5=980-20 7=HI1060 FLEX 8=980-16	S=250μm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

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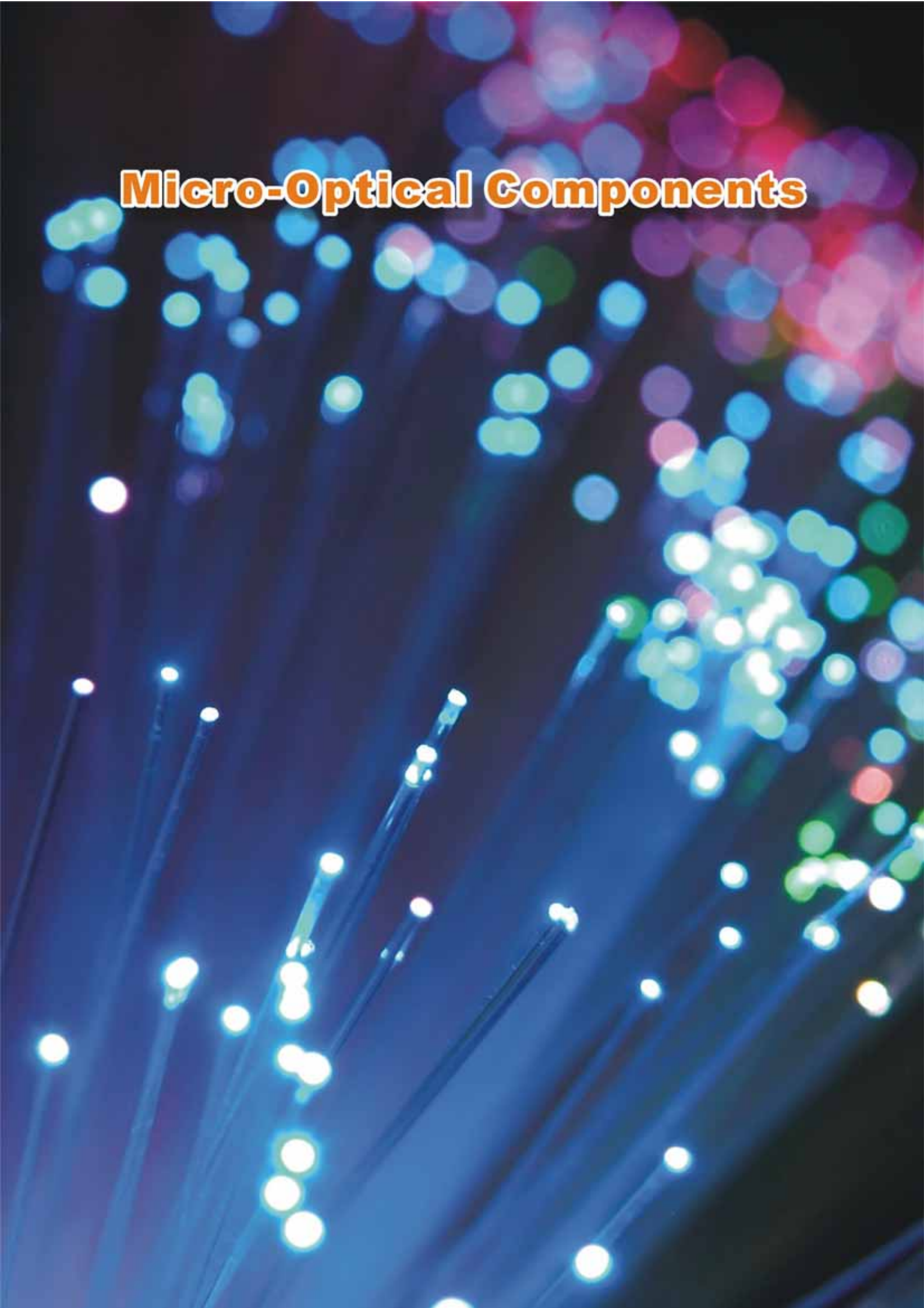

Micro-Optical Components

4 Port 1064nm Polarization Maintaining Optical Circulator

Product Features

- High Isolation
- Low Insertion Loss
- High Extinction Ratio
- Excellent Stability and Reliability

Product Applications

- Research
- Fiber Sensors
- Coherent Detecting
- Fiber Optic instruments

Specifications

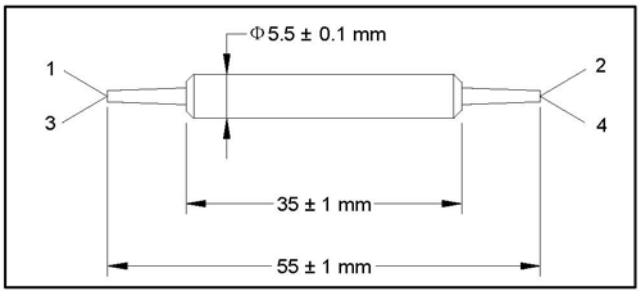
Parameter		Unit	Type A	Type B
Central Wavelength (λc)		nm	1064	
Insertion Loss, λc, 23°C	Typ.	dB	3.8	2.4
Insertion Loss*, λc	Max.	dB	4.2	2.8
Isolation, λc, 23°C	Typ.	dB	52	30
Isolation, λc, 23°C	Min.	dB	45	20
Extinction Ratio	Min.	dB	20	20
Directivity (1→3, 2→4)	Min.	dB	50	
Return Loss	Min.	dB	50	
Optical Power (Continuous Wave)	Max.	mW	300	
Tensile Load	Max.	N	5	
Operating Temperature		°C	-5 to +50	
Storage Temperature		°C	-40 to +85	

IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

The routing path: Type A: 1→2, 2→3, 3→4; Type B: 1→2, 2→3, 3→4, 4→1

*All temperature.

Package Dimensions



Ordering Information

P	M	O	C	I	R							
						Port F=4 port	Type A=Type A B=Type B	Package C= Ø5.5 x L35	Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC

Note: All specifications are before connectors and are subject to change without notice.

4 Port Polarization-Insensitive Optical Circulator

Product Features

- High Isolation
- Low Insertion Loss
- Polarization-Insensitive
- High Stability and Reliability

Product Applications

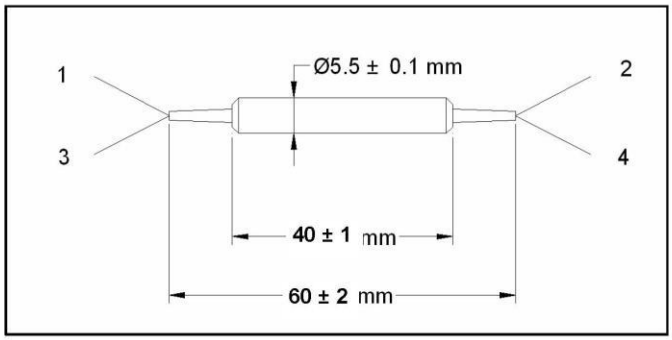
- DWDM Systems
- High Speed Systems
- Bi-Direction Communication Systems

Specifications

Transmitting Direction			1→2, 2→3, 3→4
Central Wavelength (λc)		nm	1310 or 1550
Operating Wavelength Range		nm	±20
Insertion Loss	Typ.	dB	0.7
	Max.	dB	0.9
Isolation, 23°C	Min.	dB	38
Crosstalk	Min.	dB	50
Return Loss	Min.	dB	50
Polarization Dependent Loss	Max.	dB	0.2
Polarization Mode Dispersion	Max.	ps	0.1
Optical Power (Continuous Wave)	Max.	mW	300
Tensile Load	Max.	N	5
Operating Temperature		°C	0 to +70
Storage Temperature		°C	-40 to +85

IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

P	I	O	C	I	R								
						Wavelength 4=1550nm 7=1310nm	Port F=4 port	Package D= Ø5.5 x L40	Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type S=G652 or Equivalent	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC

Note: All specifications are before connectors and are subject to change without notice.

1064nm Polarization Maintaining Isolator

Product Features

- High Isolation
- Low Insertion Loss
- High Return Loss
- Epoxy Free Optical Path

Product Applications

- Polarization Maintaining Fiber Amplifier
- Fiber Lasers
- Optical Communication System
- Fiber optic LAN Systems

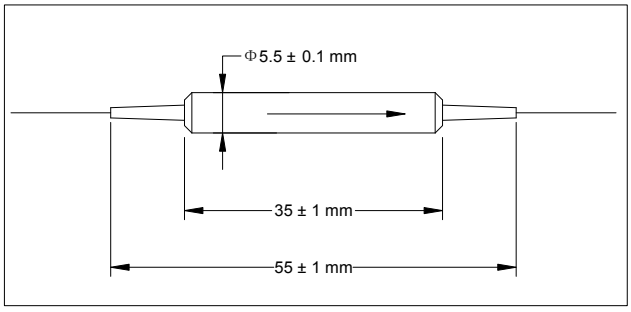
Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Stage			Single Stage		Dual Stage	
Central Wavelength (λc)		nm	1064			
Extinction Ratio	Min.	dB	20	18	20	18
Peak Isolation	Typ.	dB	38	36	55	52
Isolation, λc, 23°C	Min.	dB	35	32	45	42
Insertion Loss, λc, 23°C	Typ.	dB	1.5	1.6	2.4	2.6
Insertion Loss, λc*	Max.	dB	2.0	2.2	3.4	3.6
Return Loss (Input/Output)	Min.	dB	55/50			
Optical Power (Continuous Wave)	Max.	mW	300			
Tensile Load	Max.	N	5			
Operating Temperature		°C	-5 to +50			
Storage Temperature		°C	-40 to +85			

IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

*All Temperature

Package Dimensions



Ordering Information

P	M	I	S									
				Stage D=Dual S=Single	Wavelength 8=1064nm	Grade P=Premium A=A grade	Package C= Ø5.5 x L35	Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type E=Panda Fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC	Working Axis F=Fast axis blocked B=Both axes working

Note: All specifications are before connectors and are subject to change without notice.

1064nm Polarization Maintaining Optical Circulator

Product Features

- High Isolation
- Low Insertion Loss
- High Extinction Ratio
- Excellent Stability and Reliability

Product Applications

- Research
- Fiber Sensors
- Coherent Detecting
- Fiber Optic instruments

Specifications

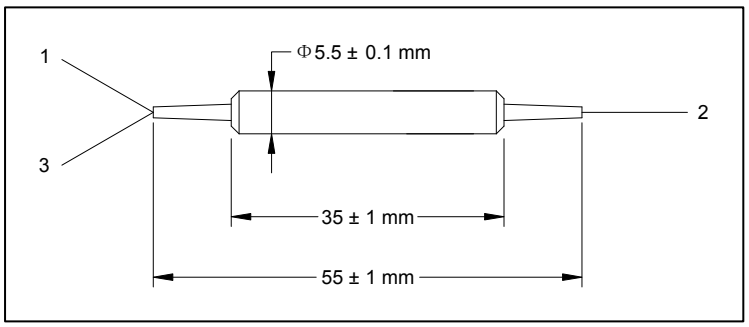
Parameter		Unit	Type A	Type B
Central Wavelength (λc)		nm	1064	
Insertion Loss, λc, 23°C	Typ.	dB	3.4	1.8
Insertion Loss*	Max.	dB	4.0	2.1
Isolation, λc, 23°C	Typ.	dB	52	30
Isolation, λc, 23°C	Min.	dB	45	22
Extinction Ratio	Min.	dB	20	
Crosstalk	Min.	dB	50	
Return Loss	Min.	dB	50	
Optical Power (Continuous Wave)	Max.	mW	300	
Tensile Load	Max.	N	5	
Operating Temperature		°C	-5 to +50	
Storage Temperature		°C	-40 to +85	

IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

The routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3.

*All temperature.

Package Dimensions



Ordering Information

P	M	O	C	I	R							
						Wavelength 8=1064nm	Type A=Type A B=Type B	Package C= Ø5.5 x L35	Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC

Note: All specifications are before connectors and are subject to change without notice.

1064nm Polarization-Insensitive Isolator

Product Features

- High Isolation
- Low Insertion Loss
- High Return Loss
- Epoxy Free Optical Path

Product Applications

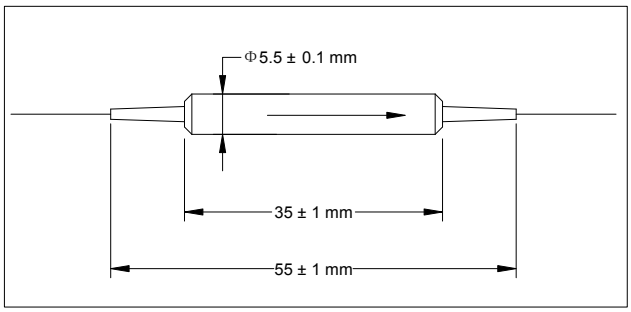
- EDFAs
- Fiber Lasers
- DWDM Systems
- Fiber Optics Communication Equipments

Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Stage			Single Stage		Dual Stage	
Central Wavelength (λc)		nm	1064			
Peak Isolation	Typ.	dB	40	38	55	52
Isolation, λc, 23°C	Min.	dB	35	32	45	42
Insertion Loss, λc, 23°C	Typ.	dB	1.5	1.6	2.4	2.6
Insertion Loss, λc, -5°C to 50°C	Max.	dB	2.0	2.2	3.4	3.6
Polarization Dependent Loss, 23°C	Max.	dB	0.1	0.15	0.1	0.15
Return Loss (Input/Output)	Min.	dB	55/50			
Optical Power (Continuous Wave)	Max.	mW	300			
Tensile Load	Max.	N	5			
Operating Temperature		°C	-5 to +50			
Storage Temperature		°C	-40 to +85			

IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

P	I	I	S				0						
				Stage D=Dual S=Single	Wavelength 8=1064nm	Grade P=Premium A=A grade		Package C= Ø5.5 x L35	Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type H=HI1060 fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC

Note: All specifications are before connectors and are subject to change without notice.

Polarization Maintaining Isolator

Product Features

- High Isolation
- Low Insertion Loss
- High Return Loss
- Epoxy Free Optical Path

Product Applications

- Polarization Maintaining Fiber Amplifier
- Fiber Lasers
- Optical Communication System
- Fiber optic LAN Systems

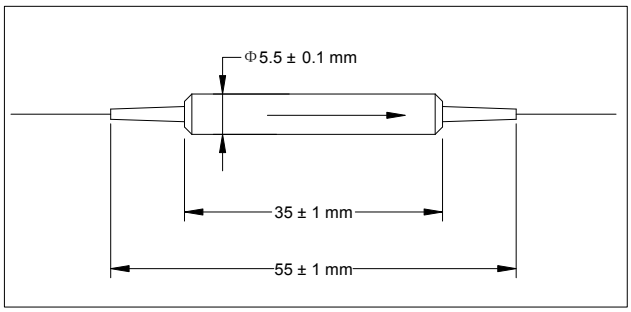
Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Stage			Single Stage		Dual Stage	
Central Wavelength (λc)		nm	1310,1480 or 1550			
Extinction Ratio	Min.	dB	20	18	20	18
Peak Isolation	Typ.	dB	42	40	58	55
Isolation, λc±10nm, 23°C	Min.	dB	30	28	46	45
Insertion Loss, λc±20nm, 23°C	Typ.	dB	0.4	0.5	0.5	0.7
Insertion Loss, λc±20nm*	Max.	dB	0.6	0.7	0.7	0.9
Return Loss (Input/Output)	Min.	dB	55/50			
Optical Power (Continuous Wave)	Max.	mW	300			
Tensile Load	Max.	N	5			
Operating Temperature		°C	-5 to +70			
Storage Temperature		°C	-40 to +85			

IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

*All Temperature

Package Dimensions



Ordering Information

P	M	I	S									
				Stage D=Dual S=Single	Wavelength 4=1550nm 5=1480nm 7=1310nm	Grade P=Premium A=A grade	Package C= Ø5.5 x L35	Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type E=Panda Fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC	Working Axis F=Fast axis blocked B=Both axes working

Note: All specifications are before connectors and are subject to change without notice.

Polarization Maintaining Optical Circulator

Product Features

- High Isolation
- Low Insertion Loss
- High Extinction Ratio
- Excellent Stability and Reliability

Product Applications

- Research
- Fiber Sensors
- Coherent Detecting
- Fiber Optic instruments

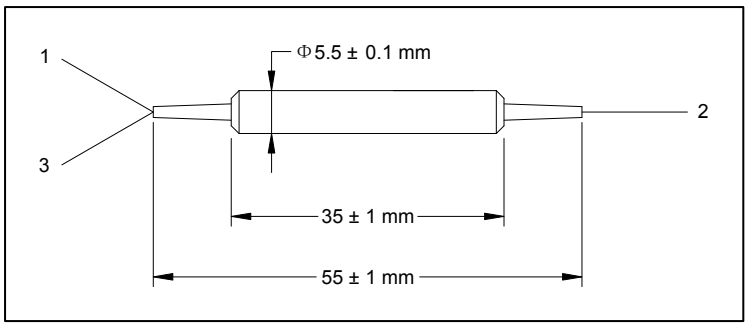
Specifications

Parameter		Unit	Type A	Type B
Central Wavelength (λc)		nm	1310 or 1550	
Operating Wavelength Range		nm	±30	±20
Insertion Loss, λc, 23°C	Typ.	dB	0.7	0.6
Insertion Loss	Max.	dB	0.9	0.8
Peak Isolation	Typ.	dB	52	40
Isolation, λc, 23°C	Typ.	dB	46	30
Isolation, 23°C	Min.	dB	40	20
Extinction Ratio	Min.	dB	22	20
Crosstalk	Min.	dB	50	
Return Loss	Min.	dB	50	
Optical Power (Continuous Wave)	Max.	mW	300	
Tensile Load	Max.	N	5	
Operating Temperature		°C	-5 to +70	
Storage Temperature		°C	-40 to +85	

IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

The routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3.

Package Dimensions



Ordering Information

P	M	O	C	I	R							
						Wavelength 4=1550nm 7=1310nm	Type A=Type A B=Type B	Package C= Ø5.5 x L35	Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type E=Panda fiber	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC

Note: All specifications are before connectors and are subject to change without notice.

COMCORE

Polarization Maintaining Tap Isolator

Product Features

- Low Insertion Loss
- High Extinction Ratio
- High Return Loss

Product Applications

- Fiber Amplifier
- Optical Communication System

Specifications

Stage			Single Stage	Dual Stage
Central Wavelength (λc)		nm	1310,1480 or 1550	
Operating Wavelength Range		nm	±15	
Excess Loss	Max.	dB	0.8	0.9
Extinction Ratio	Min.	dB	20	20
Peak Isolation	Typ.	dB	40	55
Isolation, λc±10nm, 23°C	Min.	dB	30	45
Return Loss	Min.	dB	50	
Optical Power (Continuous Wave)	Max.	mW	300	
Tensile Load	Max.	N	5	
Directivity		dB	50	
Operating Temperature		°C	-5 to +70	
Storage Temperature		°C	-40 to +85	

IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

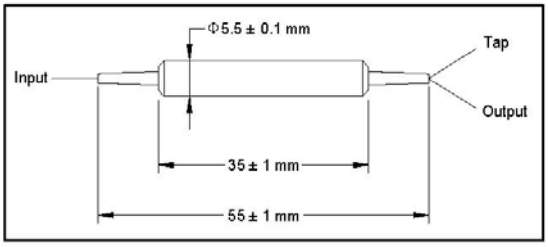
The optical path is aligned to slow axis and fast axis is blocked.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)
1/99	±0.2
2/98	±0.4
4/96	±0.8
5/95	±1.0
90/10	±2.0

Fiber Type	Tap Port
Type 1	SM28e or Equivalent Fiber
Type 2	Panda Fiber

Package Dimensions



Ordering Information

P	M	T	I										
				Stage D=Dual S=Single	Wavelength 4=1550nm 5=1480nm 7=1310nm	Splitting Ratio 01=1:99 02=2:98 04=4:96 05=5:95 10=90:10		Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type 1=Type 1 2=Type 2	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC	Working Axis F=Fast axis blocked

Note: All specifications are before connectors and are subject to change without notice.

Polarization-Insensitive Isolator

Product Features

- High Isolation
- Low Insertion Loss
- High Return Loss
- Epoxy Free Optical Path

Product Applications

- EDFAs
- Fiber Lasers
- DWDM Systems
- Fiber Optics Communication Equipments

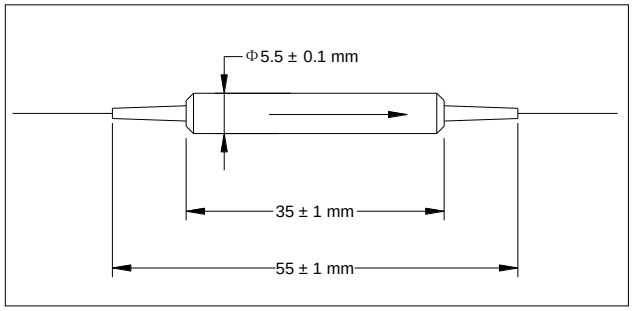
Specifications

Parameter		Unit	Premium	A grade	Premium	A grade
Stage			Single Stage		Dual Stage	
Central Wavelength (λc)		nm	1310,1480 or 1550			
Peak Isolation	Typ.	dB	42	40	58	55
Isolation, λc±10nm, 23°C	Min.	dB	30	29	46	45
Insertion Loss, λc, 23°C	Typ.	dB	0.35	0.5	0.4	0.6
Insertion Loss, λc±20nm*	Max.	dB	0.5	0.7	0.6	0.9
Polarization Dependent Loss, 23°C	Max.	dB	0.05	0.1	0.05	0.15
Polarization Mode Dispersion	Max.	ps	0.20	0.25	0.05	0.07
Return Loss (Input/Output)	Min.	dB	60/55			
Optical Power (Continuous Wave)	Max.	mW	300			
Tensile Load	Max.	N	5			
Operating Temperature		°C	-5 to +70			
Storage Temperature		°C	-40 to +85			

IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

*All Temperature

Package Dimensions



Ordering Information

P	I	I	S										
				Stage D=Dual S=Single	Wavelength 4=1550nm 5=1480nm 7=1310nm	Grade P=Premium A=A grade	PMD 1=0.05 ps max. 2=Refer to above spec.	Package C= Ø5.5 x L35	Pigtail S=250μm bare fiber pigtail M=0.9mm loose tube	Fiber Type S=G652 or Equivalent	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC

Note: All specifications are before connectors and are subject to change without notice.

Polarization-Insensitive Optical Circulator

Product Features

- Wide Band High Isolation Low PDL
- Low Insertion Loss
- Polarization-Insensitive
- High Stability and Reliability
- Compact In-Line Package
- Epoxy Free Optical Path

Product Applications

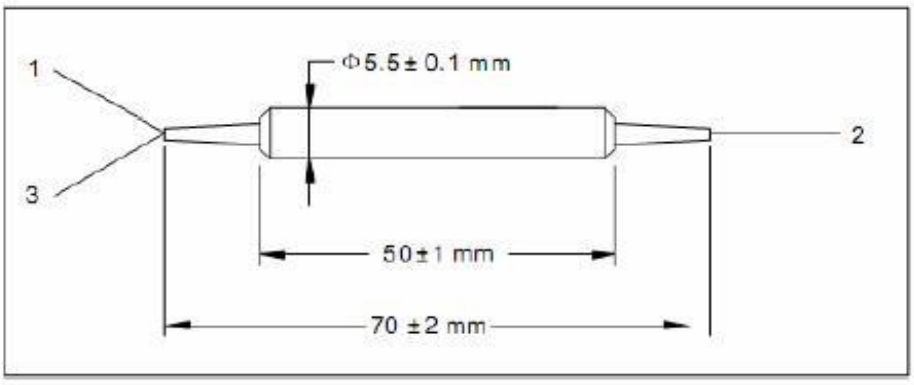
- Optical Amplifier
- Metro Area Network
- Wavelength Add / Drop
- Dispersion Compensation
- Bi-Direction Communication

Specifications

Configuration			Port 1 to Port 2 to Port 3
Central Wavelength (λc)		nm	1310 or 1550
Operating Wavelength Range		nm	±20
Insertion Loss	Typ.	dB	0.7
	Max.	dB	0.8
Isolation, 23°C	Min.	dB	45
Crosstalk	Min.	dB	50
Return Loss	Min.	dB	55
Polarization Dependent Loss	Max.	dB	0.1
Polarization Mode Dispersion	Max.	ps	0.1
Optical Power (Continuous Wave)	Max.	mW	300
Tensile Load	Max.	N	5
Operating Temperature		°C	-5 to +70
Storage Temperature		°C	-40 to +85

IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

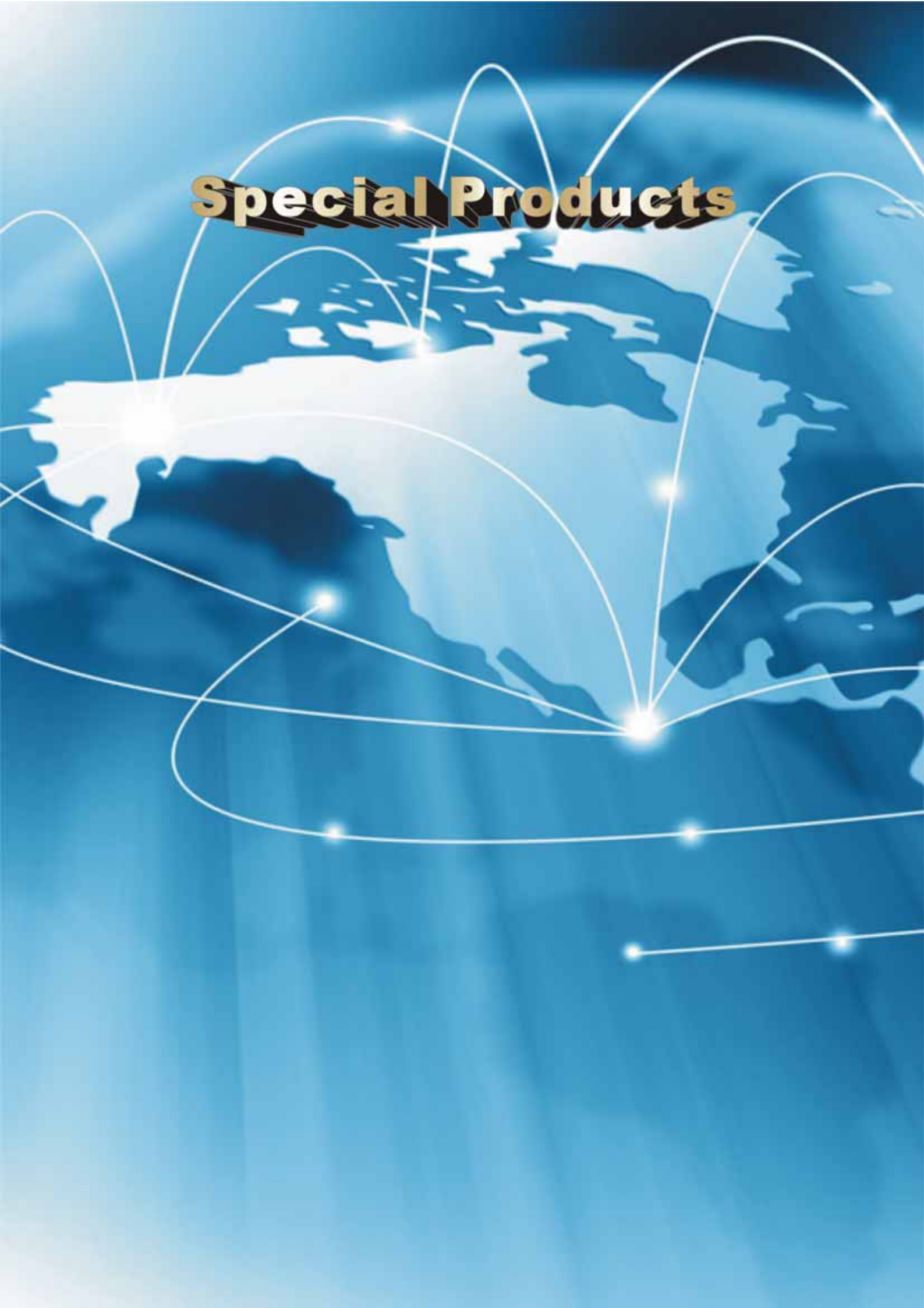
Package Dimensions



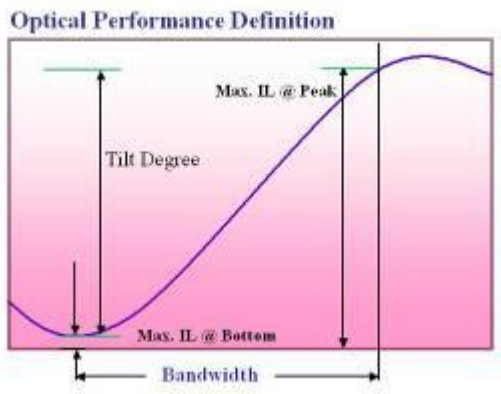
Ordering Information

P	I	O	C	I	R							
						Wavelength 4=1550nm 7=1310nm	Port 3=3 port	Package D= Ø5.5 x L50	Pigtail S=250µm bare fiber pigtail M=0.9mm loose tube	Fiber Type S=G652 or Equivalent	Fiber Length 0=0.5m 1=0.75m 2=1.0m	Connector 0=None 3=FC/APC 5=SC/APC 7=FC/UPC 8=SC/UPC

Note: All specifications are before connectors and are subject to change without notice.


Special Products

Fused Single Mode Fiber Tilt Filter



Product Features

- Low PDL
- Low PMD
- Low Insertion Loss
- Stable and Reliable

Product Applications

- Optical Amplification
- Optical Testing System
- Optical Module
- FTTx

Specifications

Parameter		Unit	Premium	A grade
Port Configuration			1x1	
Bandwidth		nm	+/-15, +/-20, +/-40nm	
Tilt Degree	Typ.	dB	0.5, 1, 2, 3, 4, 5	
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S7	Ø3x60: for bare fiber

Performance Table

	Maximum Insertion Loss (dB)					
	Premium			A grade		
Tilt Degree (dB)	Max IL (dB) at Bottom	Max IL (dB) at Peak	Tolerance (dB)	Max IL (dB) at Bottom	Max IL (dB) at Peak	Tolerance (dB)
0.5	0.1	0.6	+/-0.1	0.15	0.7	+/-0.2
1.0	0.2	1.15	+/-0.2	0.25	1.3	+/-0.3
2.0	0.3	2.3	+/-0.25	0.4	2.4	+/-0.5
3.0	0.5	3.4	+/-0.35	0.6	3.6	+/-0.6
4.0	0.6	4.5	+/-0.5	0.7	4.7	+/-0.7
5.0	0.7	5.6	+/-0.6	0.9	5.8	+/-0.8

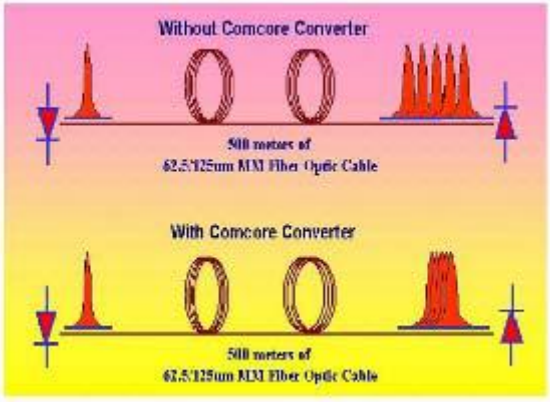
Ordering Information

S	T	F											
			Wavelength 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm P=2000nm S=Specify	Bandwidth 1= ± 15nm 2= ± 20nm 3= ± 30nm 4= ± 40nm	Tilt Degree 05=0.5dB 10=1.0dB 20=2.0dB 30=3.0dB 40=4.0dB 50=5.0dB		Tilt Direction P=Positive N=Negative	Grade P=Premium A=A grade	Package 6=S7 with 250µm bare fiber		Fiber Type 1=G652 or Equivalent	Fiber Length 0=0.5m 1=0.75m 2=1.0m S=Specify	Connector 0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

SM-MM Broadband Converter



Features

- Centralized Cladding Splicing
- Permanent Splice
- Low Splicing Loss
- Automatically-Spliced

Benefits

- Easy to Use
- Install Any Connectors
- Avoid Differential Mode Delay(DMD)
- Fits Existing Cabling Scheme

Specifications

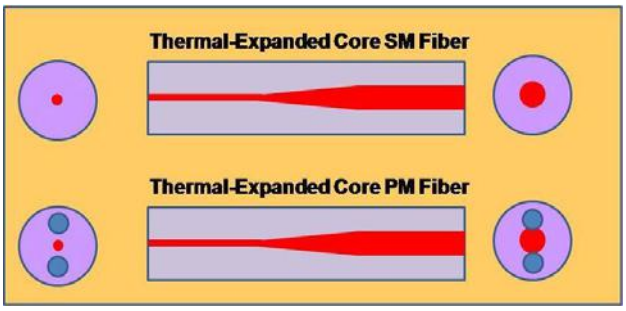
Parameter		Unit	Premium	A grade
Bandwidth		nm	All Wavelength	
Insertion Loss	Max.	dB	0.5	1.0
Operating Power	Max.	W	5	
Package Type		mm	S11= Ø3x70 / M1=9x16x90	

Ordering Information

S	M	M	M	0	0							
						Pigtail S=250µm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable	Package A=S11 D=M1	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Input Fiber Type 1=G652 or Equivalent	Output Fiber Type 2=50/125µm 3=62.5/125µm	Input Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC	Output Connector 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC

Note: All specifications are before connectors and are subject to change without notice.

Thermal Expanded Single Core Fiber



Product Features

- Low Excess Loss
- Large Expanded Field
- More Tolerance for Alignment

Product Applications

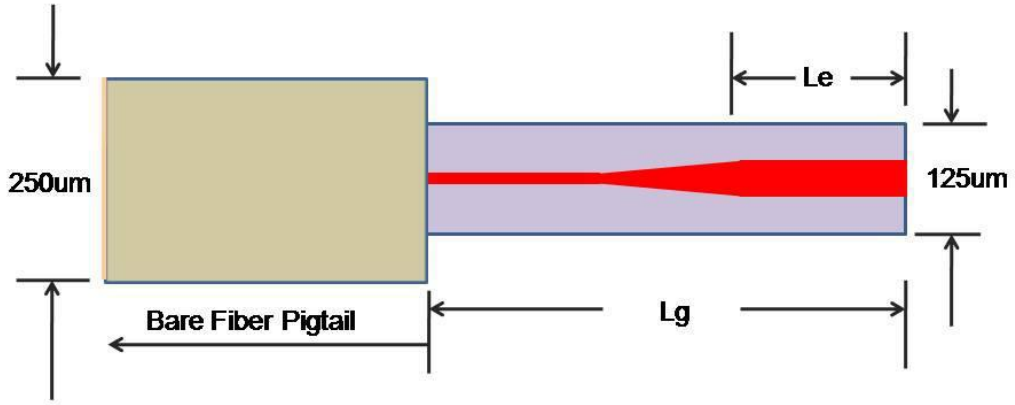
- Low Loss Splicing Point for Different Fibers
- Stable Fiber Alignment
- High Power Connector Pigtails
- High Coupling Efficient to Laser

Specifications

Parameter		Unit	
Excess Loss	Max.	dB	0.1
Excess Loss	Typ.	dB	0.04
Expanded Core Length (Le)	Min.	mm	2.0
Available Polishing Length	Min.	mm	0.5
Mode Filed Diameter Increase	Typ.	%	100
Glass Fiber Length (Lg)	Min.	mm	8

Glass length (Lg) should be 3mm longer than expand length (Le).

The Structure for Thermal-Expanded Core Fiber

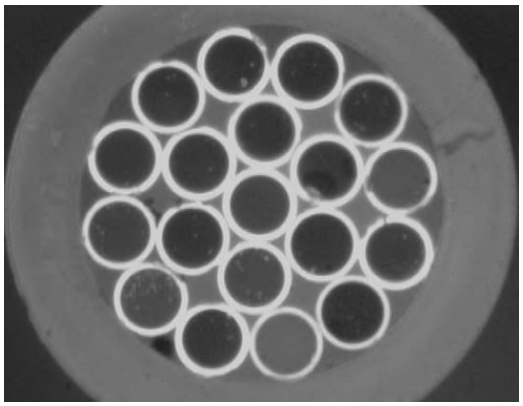


Ordering Information

T	E	C											
			Mode Filed Increase 1=100% 2=200%	Glass Length, Lg 04=4mm 05=5mm 06=6mm 07=7mm ..... 20=20mm		Expand Length, Le 02=2.0mm 03=3.0mm 04=4.0mm ..... 10=10.0mm		Fiber Type 1=G652 or Equivalent 2=HI1060 3=HI1060 FLEX 4=980-20 5=980-16 6=HI780C 7=Panda1550 8=Panda980 9=Panda780	Pigtail S=250μm bare fiber M=0.9mm Loose tube L=3mm Cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m S=Specify	Connector (TEC fiber) 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC E=FC Ferrule F=LC Ferrule G=FA	Connector (Normal fiber) 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 4=SC/SPC 5=SC/APC 6=ST 7=FC/UPC 8=SC/UPC 9=MU A=LC/PC B=SC/PC C=LC/UPC D=LC/APC E=FC Ferrule F=LC Ferrule G=FA

Note: All specifications are before connectors and are subject to change without notice.

Fiber Optic Bundles



Product Features

- High Power Transfer Efficiency
- Wavelength Insensitivity
- High Power Handling
- Custom Configurations Available

Product Applications

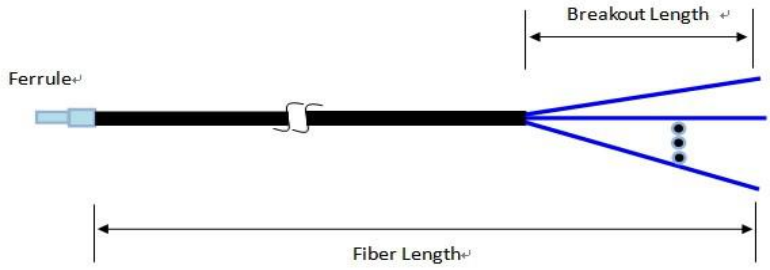
- High Power All-Fiber Lasers
- High Power Fiber Amplifiers
- Medical
- Defense

Specifications

Parameter		Unit	
Fiber Number			2, 3, 4, 7, 19, 37, 61
Transfer Efficiency	Typ.	%	98
Operating Power	Max.	W	5
Operating Temperature		°C	-50 to +75
Storage Temperature		°C	-50 to +85

Physical View

Diagram



Ordering Information

F	O	B	0	0	0	0	0					

Fiber Number	Fiber Type	Fiber Length	Breakout Length	Connector
1=2-Fiber 2=3-Fiber 3=4-Fiber 4=7-Fiber 5=19-Fiber 6=37-Fiber 7=61-Fiber S=Specify	1=105/125μm (NA=0.22) 2=62.5/125μm 3=50/125μm 4=Plastic fiber 5=G625 or Equivalent S=Specify	1=1.0m 2=1.5m S=Specify	1=15cm 2=25cm 3=35cm S=Specify	0=None 1=FC/PC 2=ST 3=ST/PC S=Specify

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

Clad Power Stripper

Product Features

- Low Insertion Loss
- High Power Handling
- Customer Configurations Available

Product Applications

- Optical Amplification
- Optical Fiber laser

Specifications

Parameter		Unit		
Center Wavelength(nm)		nm	980,1064,1550	
Bandwidth		nm	±15	
Operating Wavelength-Pumps		nm	800~1200	
Cladding Attenuation	Min.	dB	20	
Polarization Extinction Ratio	Min.	dB	18	
Inserting Loss	Max.	dB	0.3	
Package Type		mm	M2	7.5x18x90

Ordering Information

C	P	S			0	0	0						

Wavelength
4=1550nm
8=1064nm
9=980nm
S=Specify

Power
A= 10W
B= 20W
C=30W

Package
E=M2

Fiber Type
I=6/125DC
K=8/125DC
M=10/125DC
N=20/125DC
O=PM6/125DC
P=PM10/125DC
Q=PM12/125DC
R=PM15/125DC
T=PM20/125DC
S=Specify

Pigtail
S=250μm bare fiber
M=900μm loose tube
L=3mm cable
R=2mm cable

Fiber Length
0=0.5m
1=0.75m
2=1.0m
S=Specify

Connector
0=None

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.

COMCORE

Plastic Fiber Couplers

1x2 (2x2) Plastic Fiber Splitter (Mixer)

Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LAN
- Optical Entertainment Systems
- Fiber Sensors

Specification

Splitting Ratio: 80:20; 70:30; 50:50

Parameter		Unit	1x2 or 2x2	
Grade			P	A
Central Wavelength		nm	650, 850	
Splitting Ratio Tolerance*	Max.	%	±10	±15
Excess Loss	Max.	dB	1.4	1.8
Uniformity	Max.	dB	1.0	1.5
Return Loss**	Min.	dB	30	
Operating Power	Max.	mW	500	
Operating Temperature		°C	-55 to +105 for BH4001, -55 to +85 for GH4001	
Storage Temperature		°C	-55 to +105 for BH4001, -55 to +85 for GH4001	
Package Type		mm	S14: Φ6.0×101 for 2.2mm cable	

** ±10% is for 50:50 Splitter or Mixer, ±5% for 80:20 and ±6% for 70:30 Splitter or Mixer.*
*** Test at central wavelength only.*

Ordering Information

P	F	S										
			Wavelength A=850nm B=650nm	Structure 1=1x2 2=2x2	Splitting Ratio 80=80:20 70=70:30 50=50:50		Grade P=Premium A=A grade	Package R=S14	Fiber Type B=BH4001 G=GH4001	Pigtail R=2.2 mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 6=ST

Note: 1. All specifications are before connectors and are subject to change without notice.
2. Measured under the stable mode condition with LED source.

COMCORE

1x3 (3x3) Plastic Fiber Splitter (Mixer)

Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LAN
- Optical Entertainment Systems
- Fiber Sensors

Specifications

Parameter		Unit	Splitting Ratio: 33:33:33*	
			1x3 or 3x3	
Grade			P	A
Central Wavelength		nm	650, 850	
Splitting Ratio Tolerance	Max.	%	±6.0	±10
Excess Loss	Max.	dB	1.8	2.3
Uniformity	Max.	dB	1.5	2.0
Return Loss**	Min.	dB	25	
Operating Power	Max.	mW	500	
Operating Temperature		°C	-55 to +105 for BH4001, -55 to +85 for GH4001	
Storage Temperature		°C	-55 to +105 for BH4001, -55 to +85 for GH4001	
Package Type		mm	S14: Φ6.0×101 for 2.2mm cable	

** for other splitting ratio, please contact our sales engineers at sales@comcore.com.*
*** Test at central wavelength only.*

Ordering Information

P	F	S											
			Wavelength A=850nm B=650nm	Structure 3=1x3 A=3x3	Splitting Ratio 00=even		Grade P=Premium A=A grade	Package R=S14	Fiber Type B=BH4001 G=GH4001	Pigtail R=2.2 mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 6=ST

Note: 1. All specifications are before connectors and are subject to change without notice.
2. Measured under the stable mode condition with LED source.

COMCORE

1x4 (4x4) Plastic Fiber Splitter (Mixer)

Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LAN
- Optical Entertainment Systems
- Fiber Sensors

Specification

Parameter		Unit	Splitting Ratio: 25:25:25:25	
Grade			P	A
Central Wavelength		nm	650, 850	
Splitting Ratio Tolerance	Max.	%	±6	±9
Excess Loss	Max.	dB	2	2.5
Uniformity	Max.	dB	1.8	2.5
Return Loss*	Min.	dB	30	
Operating Power	Max.	mW	500	
Operating Temperature		°C	-55 to +105 for BH4001, -55 to +85 for GH4001	
Storage Temperature		°C	-55 to +105 for BH4001, -55 to +85 for GH4001	
Package Type		mm	S16: Φ9.0×127 for 2.2mm cable	

*** Test at central wavelength only.*

Ordering Information

P	F	S											
			Wavelength A=850nm B=650nm	Structure 4=1x4 B=4x4	Splitting Ratio 00=even		Grade P=Premium A=A grade	Package T=S16	Fiber Type B=BH4001 G=GH4001	Pigtail R=2.2 mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 6=ST

Note: 1. All specifications are before connectors and are subject to change without notice.
2. Measured under the stable mode condition with LED source.

1x7 (7x7) Plastic Fiber Splitter (Mixer)

Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LAN
- Optical Entertainment Systems
- Fiber Sensors

Specification

Splitting Ratio: Even				
Parameter		Unit	1x7 or 7x7	
Grade			P	A
Central Wavelength		nm	650, 850	
Splitting Ratio Tolerance	Max.	%	±3.5	±4.5
Excess Loss	Max.	dB	3.8	4.5
Uniformity	Max.	dB	1.8	2.3
Return Loss*	Min.	dB	30	
Operating Power	Max.	mW	1000	
Operating Temperature		°C	-55 to +105 for BH4001, -55 to +85 for GH4001	
Storage Temperature		°C	-55 to +105 for BH4001, -55 to +85 for GH4001	
Package Type		mm	S16: Φ9.0×127 for 2.2mm cable	

*** Test at central wavelength only.*

Ordering Information

P	F	S											
			Wavelength A=850nm B=650nm	Structure 7=1x7 B=7x7	Splitting Ratio 00=even		Grade P=Premium A=A grade	Package T=S16	Fiber Type B=BH4001 G=GH4001	Pigtail R=2.2 mm cable	Fiber Length 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify	Connector 0=None 6=ST

Note: 1. All specifications are before connectors and are subject to change without notice.
2. Measured under the stable mode condition with LED source.

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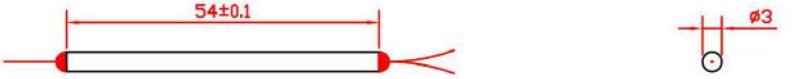
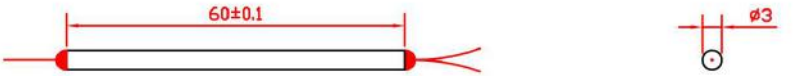
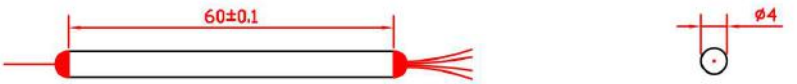
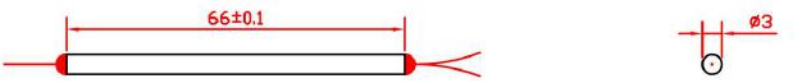
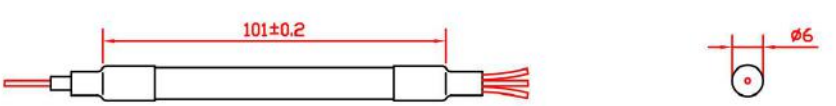
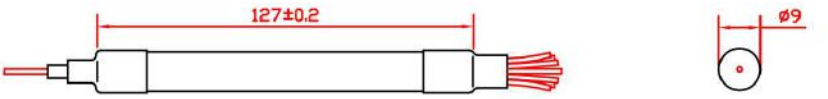
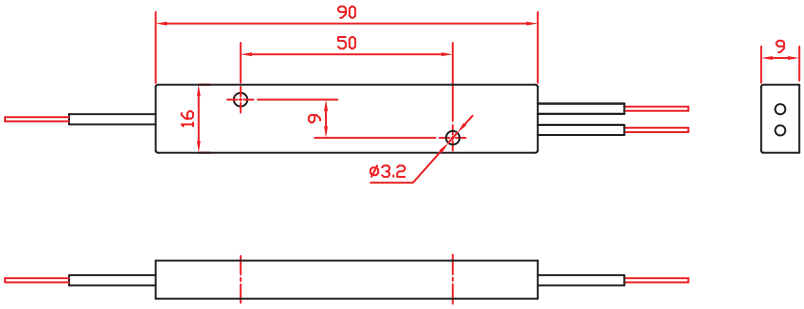
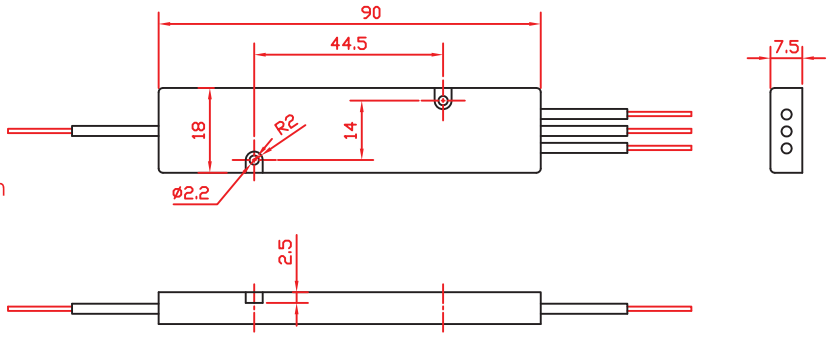
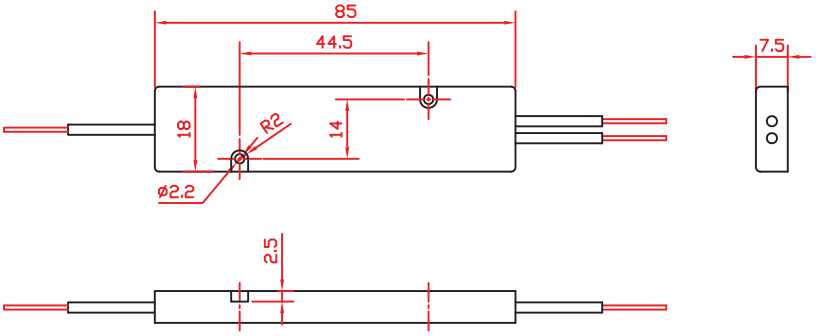
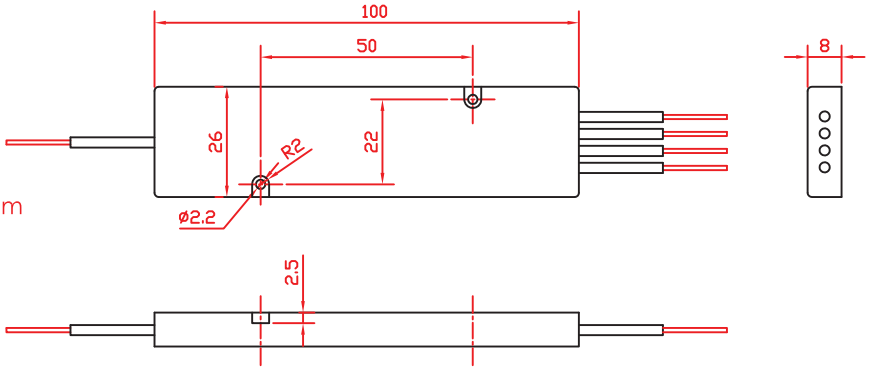
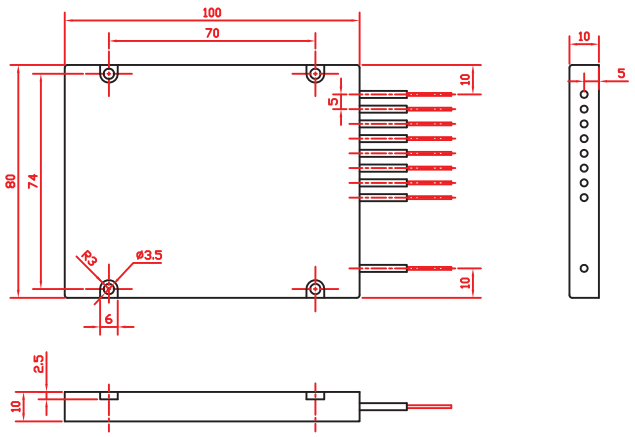
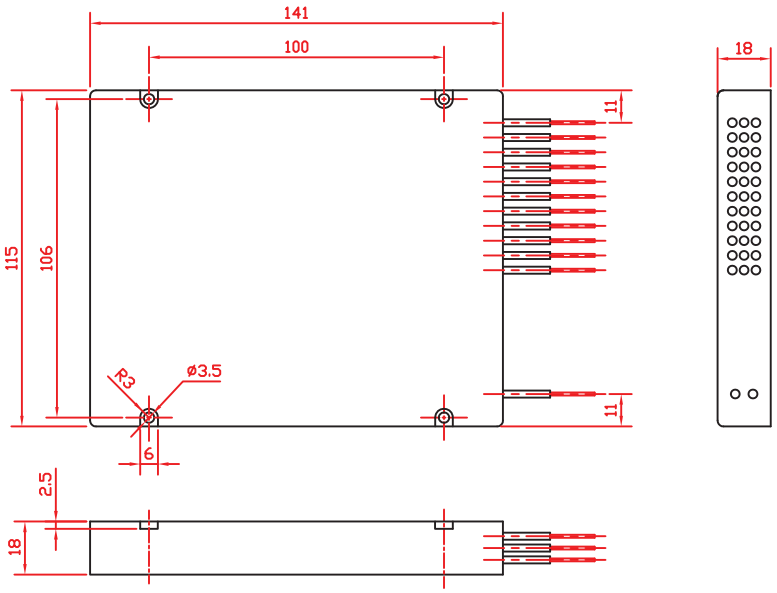
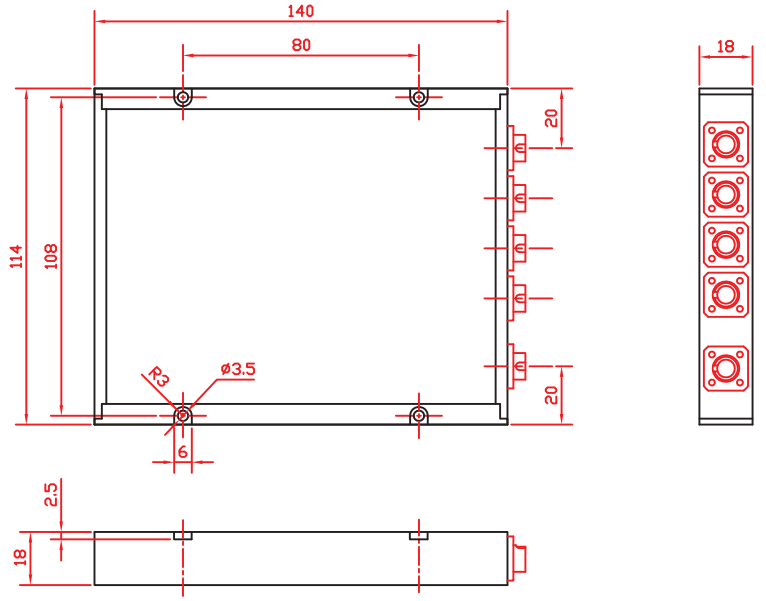
Appendix: Package Size

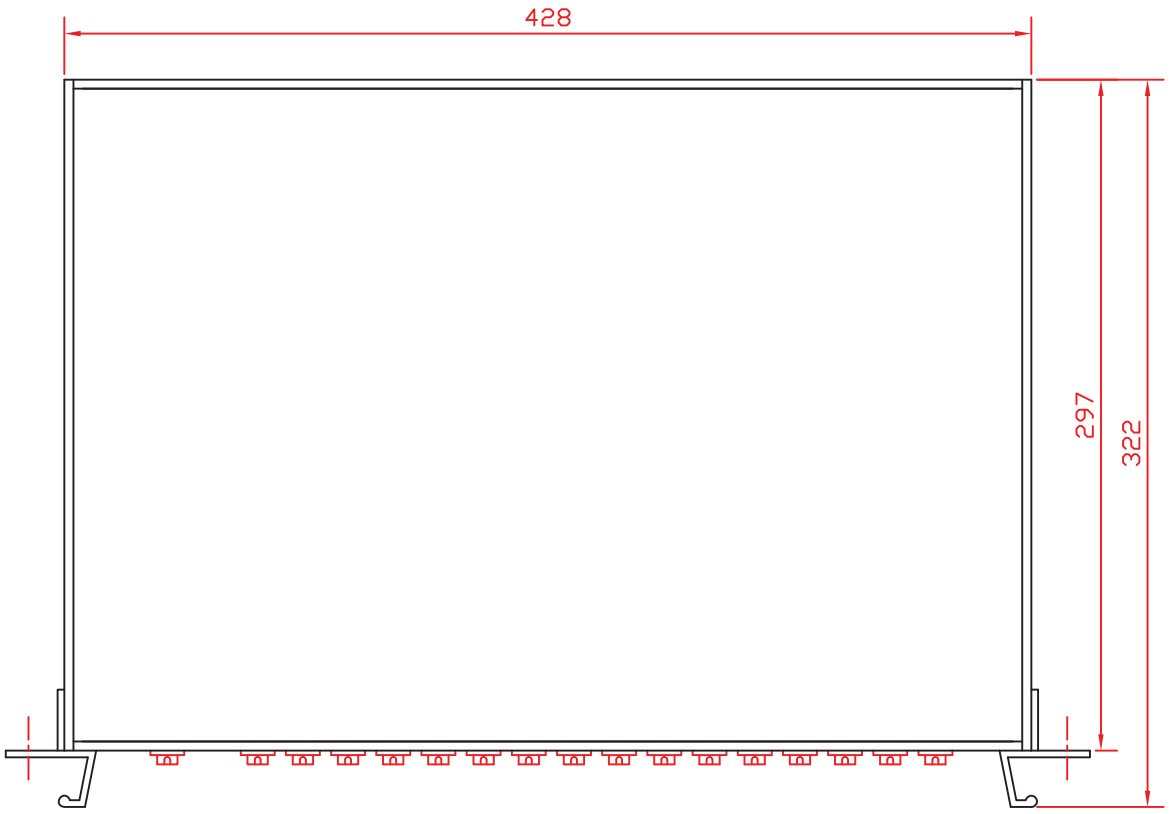
NO	Code	Dimensional Drawing
0	S1	
1	S2	
2	S3	
3	S4	
4	S5	
5	S6	
6	S7	
7	S8	
8	S9	
9	S10	
A	S11	
B	S12	
C	S13	
R	S14	
T	S15	

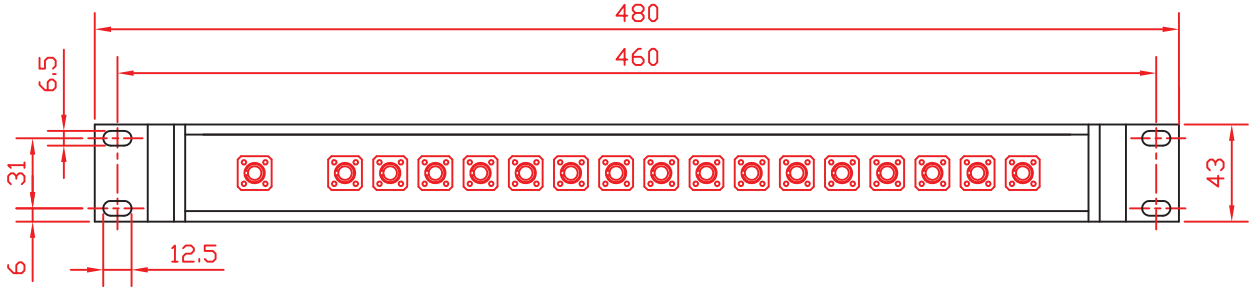
No	Code	Dimensional Drawing
D	M1 (ABS)	
E	M2 Alloy Aluminum	
F	M3 Alloy Aluminum	
G	M4 Alloy Aluminum	

No	Code	Dimensional Drawing
H	M5 ABS	
I	M6 ABS	
J	M7 Alloy Aluminum	

No	Code
K	M8 Alloy Aluminum

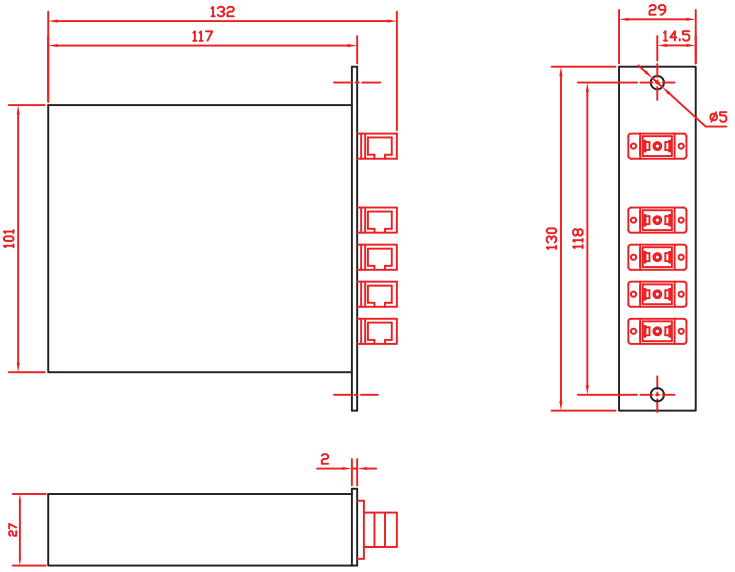
Dimensional Drawing



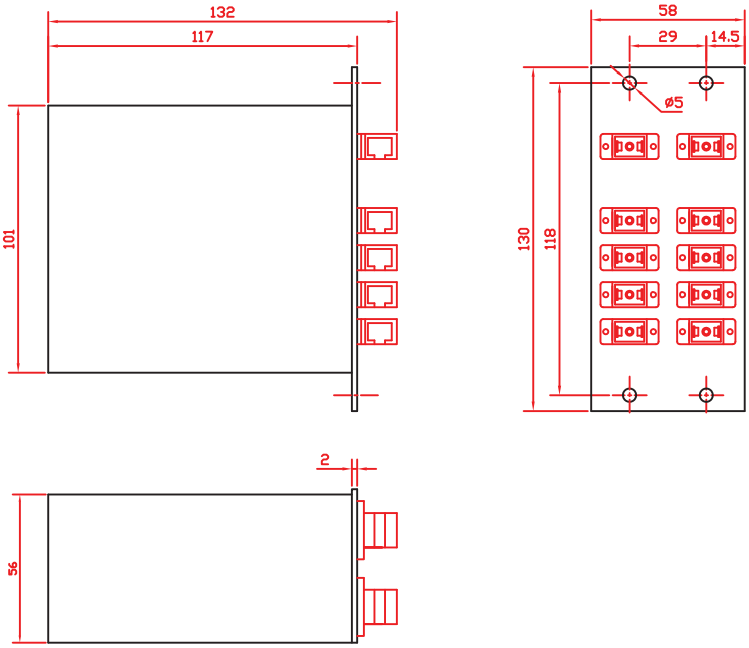


No Code Dimensional Drawing

M LGX M10
Alloy Aluminum

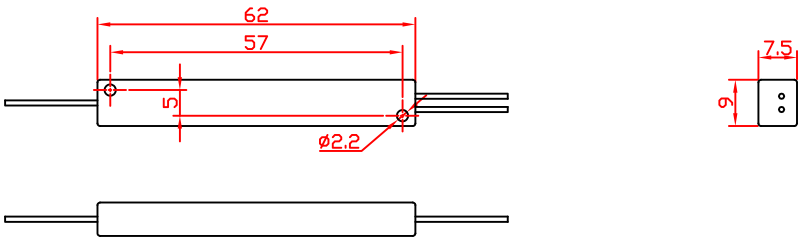


N LGX M11
Alloy Aluminum

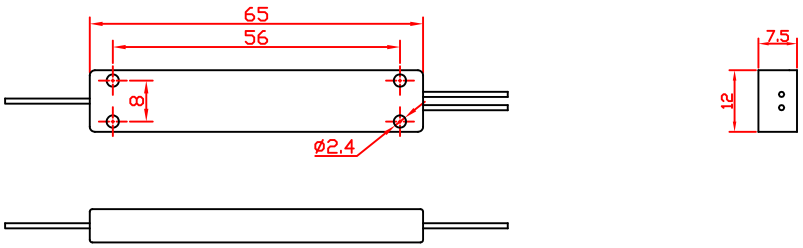


No Code Dimensional Drawing

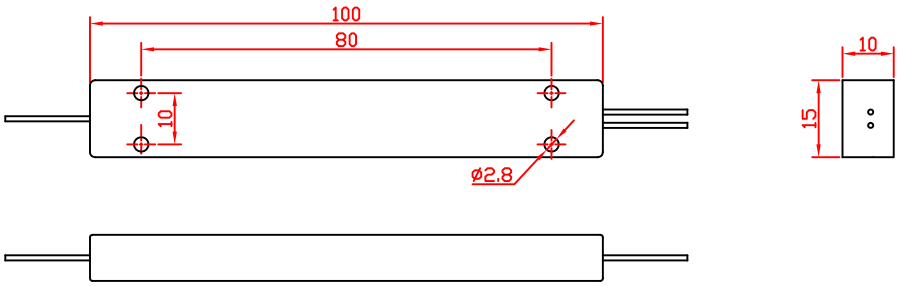
O M12
Alloy Aluminum



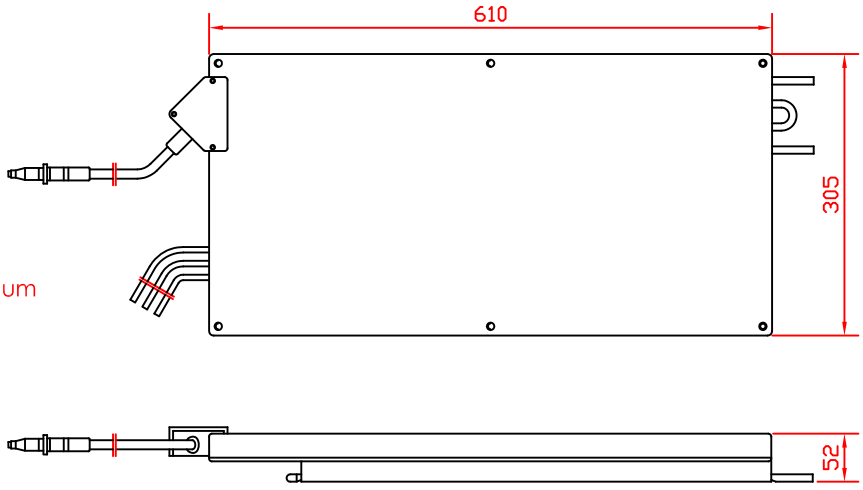
P M13
Alloy Aluminum



Q M14
Alloy Aluminum



U M15
Alloy Aluminum



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