

Comcore Technologies, Inc.



**2007
Product Catalog**

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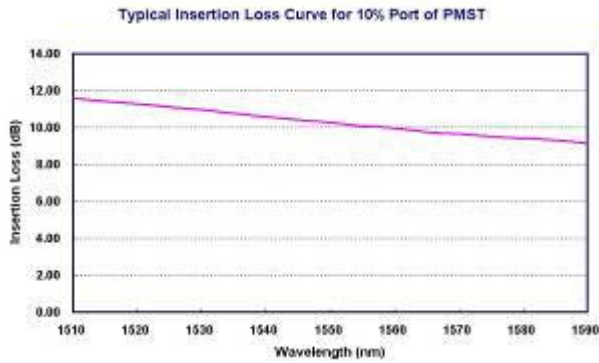
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1x2(2x2) Fused Hybrid PM Fiber Standard Tap



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 Amplifier
- Power Monitoring
- Telecomm System
- Testing Equipment

Specifications

Parameter	Unit	Premium	A grade
Port Configuration		1x2 or 2x2	
Central Wavelength	nm	980,1060,1310,1480,1550	
Bandwidth	nm	±20	
Excess Loss	Typ. dB	0.2	0.3
Excess Loss	Max. dB	0.3	0.5
PER for Through Port	Min. dB	20	17
Return Loss*	Min. dB	50	
Directivity*	Min. dB	55	
Operating power	Max. W	2	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Package Type	mm	S6	S8 M1

* Test at central wavelength only.

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

Ordering Information

P	M	S	T						
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Fiber Length	Connector		
4=1550nm 5=1480nm 7=1310nm 8=1060nm 9=980nm	1=1x2 2=2x2	05=99.5:0.5 99=99:1 98=98:2 95=95:5 90=90:10	P=Premium A=A grade	5=S6 with 250um bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 3=FC/APC		

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2.Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

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
Port Configuration		1x2	
Central Wavelength	nm	980,1060,1310,1480,1550	
Bandwidth	nm	±20	
Excess Loss	Typ. dB	0.3	0.5
Excess Loss	Max. dB	0.5	0.7
PER for Through Port	Min. dB	20	17
Return Loss*	Min. dB	50	
Directivity	Min. dB	55	
Operating power	Max. W	2	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Package Type	mm	S4	S6 M1

* Test at central wavelength only.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance %	
	Premium	A grade
99.5/0.5	±0.2	±0.3
99/1	±0.5	±0.6
98/2	±0.7	±1.0
95/5	±1.5	±1.8
90/10	±2.2	±2.5

Ordering Information

P	M	C	T						
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Fiber Length	Connector		
4=1550nm 5=1480nm 7=1310nm 8=1060nm 9=980nm	1=1x2 2=2x2	05=99.5:0.5 99=99:1 98=98:2 95=95:5 90=90:10	P=Premium A=A grade	3=S4 with 250um bare fiber pigtail 5=S6 with 0.9mm loose tube D=M1 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 3=FC/APC		

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

1x3(3x3) 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
Port Configuration		1x3 or 3x3	
Central Wavelength	nm	1310,1480,1550	
Bandwidth	nm	±20	
Excess Loss	Typ. dB	0.3	0.4
Excess Loss	Max. dB	0.5	0.8
PER for Through Port	Min. dB	20	17
Return Loss*	Min. dB	50	
Directivity*	Min. dB	55	
Operating power	Max. W	2	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Package Type	mm	S6	S12 M2

* Test at central wavelength only.

Splitting Ratio & Its Tolerance

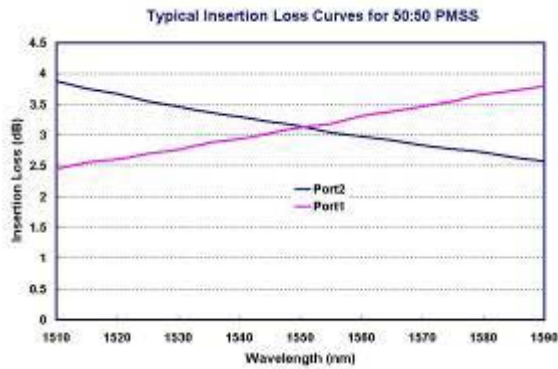
Splitting Ratio	Maximum Splitting Ratio Tolerance (%)			
	Premium		A grade	
	Main Port	Tap Port	Main Port	Tap Port
0.5/99/0.5	±0.4	±0.2	±0.5	±0.3
1/98/1	±0.6	±0.4	±0.8	±0.5
2.5/95/2.5	±1.5	±0.8	±1.8	±1.0
5/90/5	±2.0	±1.2	±2.5	±1.3
10/80/10	±2.5	±1.5	±3.0	±1.8

Ordering Information

P	M	S	T								
				Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Fiber Length	Connector
				4=1550nm 5=1480nm 7=1310nm	3=1x3 A=3x3	99=0.5:99:0.5 98=1:98:1 95=2.5:95:2.5 90=5:90:5 80=10:80:10	P=Premium A=A grade	5=S6 with 250um bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 3=FC/APC

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

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
Port Configuration		1x2 or 2x2	
Central Wavelength	nm	980, 1060, 1310, 1480, 1550	
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
Return Loss*	Min. dB	50	
Directivity	Min. dB	55	
Operating power	Max. W	2	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Package Type	mm	S6	S8 M1

* Test at central wavelength only.

Splitting Ratio & Its Tolerance

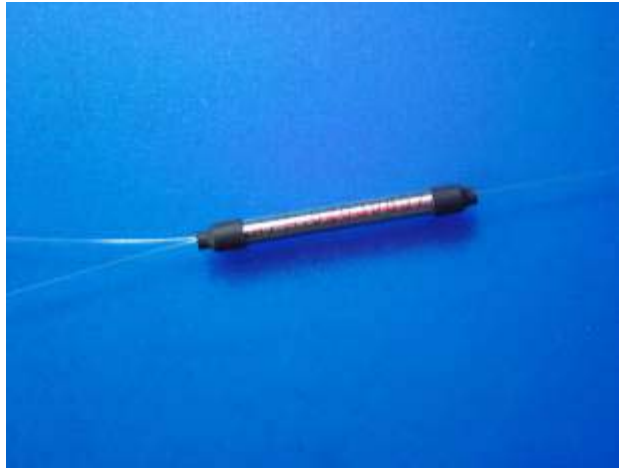
Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.6
95/5	±1.5	±1.7
90/10	±2.2	±2.4
80/20	±2.5	±3.0
70/30	±3.0	±3.7
60/40	±4.0	±4.8
50/50	±5.0	±6.0

Ordering Information

P	M	S	S						
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Fiber Length	Connector		
4=1550nm 5=1480nm 7=1310nm 8=1060nm 9=980nm	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 with 250um bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 3=FC/APC		

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

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
Port Configuration		1x2 or 2x2	
Central Wavelength	nm	980,1060,1310,1480,1550	
Bandwidth	nm	±20	
Excess Loss	Typ. dB	0.4	0.6
Excess Loss	Max. dB	0.6	0.8
Polarization Extinction Ratio	Min. dB	20	17
Return Loss*	Min. dB	50	
Directivity	Min. dB	55	
Operating power	Max. W	2	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Package Type	mm	S4	S6 M1

* Test at central wavelength only.

Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance (%)	
	Premium	A grade
99/1	±0.5	±0.6
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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Fiber Length	Connector
				4=1550nm 5=1480nm 7=1310nm 8=1060nm 9=980nm	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	3=S4 with 250um bare fiber pigtail 5=S6 with 0.9mm loose tube D=M1 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 3=FC/APC

Note: 1.All specifications are tested before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

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	
Port Configuration			1x3		
Central Wavelength		nm	1310,1480,1550		
Bandwidth		nm	±20		
Excess Loss	Typ.	dB	0.3	0.5	
Excess Loss	Max.	dB	0.6	0.8	
Polarization Extinction Ratio	Min.	dB	18	16	
Splitting Ratio Tolerance	Max.	%	±7	±10	
Return Loss*	Min.	dB	50		
Directivity*	Min.	dB	55		
Operating power	Max.	W	2		
Operating Temperature		°C	-40 to +85		
Storage Temperature		°C	-50 to +85		
Package Type		mm	S6	S12	M2

* Test at central wavelength only.

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	±3.7	±2.5	±5.0	±3.2
33:33:33	±4.0	±3.0	±6.0	±4.0
35:30:35	±4.3	±3.2	±6.3	±4.1
40:20:40	±4.0	±3.0	±6.0	±4.0

Ordering Information

P	M	S	S												
Wavelength		Structure		Splitting Ratio		Grade		Package		Fiber Type		Fiber Length		Connector	
4=1550nm 5=1480nm 7=1310nm		3=1x3		90=5:90:5 80=10:80:10 70=15:70:15 40=30:40:30 33=33:33:33 30=35:30:35 20=40:20:40 10=45:10:45		P=Premium A=A grade		5=S6 with 250um bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable		E=Panda fiber		0=0.5m 1=0.75m 2=1.0m		0=None 1=FC/PC 3=FC/APC	

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

1x2 50:50 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

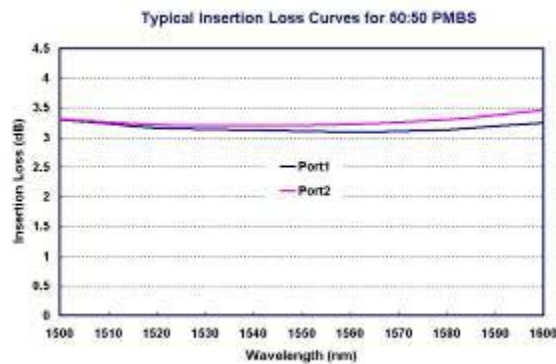
Product Applications

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

Specifications			Splitting Ratio: 50:50		
Parameter	Unit		Premium	A grade	
Port Configuration			1x2		
Central Wavelength	nm		1310,1480,1550		
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.	%	±3	±5	
Return Loss*	Min.	dB	50		
Directivity*	Min.	dB	55		
Operating power	Max.	W	2		
Operating Temperature		°C	-40 to +85		
Storage Temperature		°C	-50 to +85		
Package Type	mm		S6	S8	M1

* Test at central wavelength only.

Typical Spectrum



Ordering Information

P	M	B	S						
Wavelength 4=1550nm 5=1480nm 7=1310nm	Structure 1=1x2	5	0	Grade P=Premium A=A grade	Package 5=S6 with 250um 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	Connector 0=None 1=FC/PC 3=FC/APC	

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

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	
Port Configuration			1x3		
Central Wavelength		nm	1310,1480,1550		
Bandwidth		nm	±20		
Excess Loss	Typ.	dB	0.3	0.5	
Excess Loss	Max.	dB	0.6	0.8	
Polarization Extinction Ratio	Min.	dB	18	16	
Splitting Ratio Tolerance	Max.	%	±7	±10	
Return Loss*	Min.	dB	50		
Directivity*	Min.	dB	55		
Operating power	Max.	W	2		
Operating Temperature		°C	-40 to +85		
Storage Temperature		°C	-50 to +85		
Package Type		mm	S6	S12	M2

* Test at central wavelength only.

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	±3.7	±2.5	±5.0	±3.2
33:33:33	±4.0	±3.0	±6.0	±4.0
35:30:35	±4.3	±3.2	±6.3	±4.1
40:20:40	±4.0	±3.0	±6.0	±4.0

Ordering Information

P	M	S	S								
				Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Fiber Length	Connector
				4=1550nm 5=1480nm 7=1310nm	3=1x3	90=5:90:5 80=10:80:10 70=15:70:15 40=30:40:30 33=33:33:33 30=35:30:35 20=40:20:40 10=45:10:45	P=Premium A=A grade	5=S6 with 250um bare fiber pigtail B=S12 with 0.9mm loose tube E=M2 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 3=FC/APC

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

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		
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.	%	±4	±6	
Return Loss*	Min.	dB	50		
Directivity*	Min.	dB	55		
Operating power	Max.	W	2		
Operating Temperature		°C	-40 to +85		
Storage Temperature		°C	-50 to +85		
Package Type		mm	S6	S12	M2

* Test at central wavelength only.

Ordering Information

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

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2.Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

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	
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
Return Loss*	Min.	dB	50	
Directivity*	Min.	dB	55	
Operating power	Max.	W	2	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	S12

* Test at central wavelength only.

Ordering Information

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

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2.Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

1x2 980/1060nm Fused PM Fiber Standard WDM



Product Features

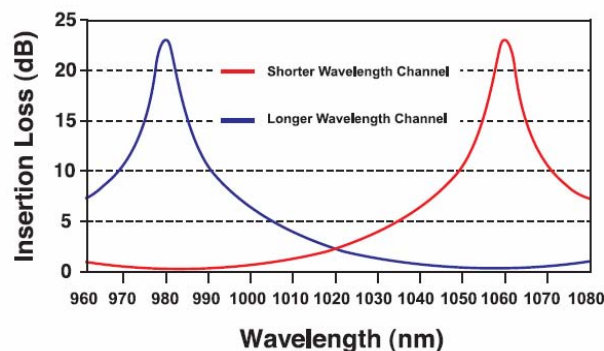
- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

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

Specifications			980/1060nm		
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@ 1060±5nm	Min. dB		13	11	
Signal Channel	nm		1060±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	S10	M3

Typical Spectrum



Ordering Information

P	M	S	W			O	O					
Wavelength C=980/1060nm	Structure 1=1x2	Grade P=Premium A=A grade	Package 8=S9 with 250um 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	Connector 0=None 1=FC/PC 3=FC/APC						

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

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 EDFA
- Monitoring in Coherent System
- Fiber Lasers

Specifications			980/1310nm		
Parameter		Unit	Premium	A grade	
Pump Channel		nm	970 to 990		
Insertion Loss	Max.	dB	0.3	0.4	
Polarization Extinction ratio	Min.	dB	20	17	
Isolation @300 to 1320nm	Min.	dB	17	15	
Signal Channel		nm	1300 to 1320		
Insertion Loss	Max.	dB	0.5	0.7	
Polarization Extinction ratio	Min.	dB	20	17	
Isolation @70 to 990nm	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	S9	M1

Ordering Information

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

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2.Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

1x2 980/1550nm Fused PM Fiber Standard WDM



Product Features

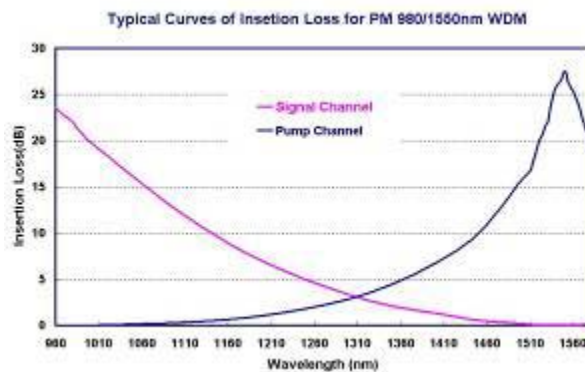
- Low Excess Loss
- High Extinction Ratio
- High Power Handling
- Available for Slow or Fast Axis Operation
- Telcordia GR-1221 Compliant Test

Product Applications

- PM Fiber EDFA
- Monitoring in Coherent System
- Fiber Lasers

Specifications			980/1550nm		
Parameter		Unit	Premium	A grade	
Pump Channel		nm	980±10		
Insertion Loss	Max.	dB	0.3	0.4	
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	0.5	0.7	
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	S8	M1

Typical Spectrum



Ordering Information

P	M	S	W			O	O					
Wavelength 1=980/1550nm		Structure 1=1x2		Grade P=Premium A=A grade		Package 5=S6 with 250um 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		Connector 0=None 1=FC/PC 3=FC/APC

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2.Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

1x2 1060/1310nm 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 EDFA
- Monitoring in Coherent System
- Fiber Lasers

Specifications			1060/1310nm		
Parameter		Unit	Premium	A grade	
Pump Channel		nm	1050 to 1070		
Insertion Loss	Max.	dB	0.3	0.4	
Polarization Extinction ratio	Min.	dB	20	17	
Isolation@ 1300 to 1320nm	Min.	dB	17	15	
Signal Channel		nm	1300 to 1320		
Insertion Loss	Max.	dB	0.5	0.7	
Polarization Extinction ratio	Min.	dB	20	17	
Isolation@ 1050 to 1070nm	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	S9	M1

Ordering Information

P	M	S	W			O	O					
				Wavelength	Structure	Grade		Package	Fiber Type	Fiber Length	Connector	
				G=1060/1310nm	1=1x2	P=Premium A=A grade		6=S7 with 250um bare fiber pigtail 8=S9 with 0.9mm loose tube D=M1 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 3=FC/APC	

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

1x2 1060/1550nm 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 EDFA
- Monitoring in Coherent System
- Fiber Lasers

Specifications			1060/1550nm		
Parameter		Unit	Premium	A grade	
Pump Channel		nm	1050 to 1070		
Insertion Loss	Max.	dB	0.3	0.4	
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	0.5	0.7	
Polarization Extinction ratio	Min.	dB	20	17	
Isolation@ 1050 to 1070nm	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	S9	M1

Ordering Information

P	M	S	W			O	O					
				Wavelength E=1060/1550nm	Structure 1=1x2			Grade P=Premium A=A grade	Package 6=S7 with 250um 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	Connector 0=None 1=FC/PC 3=FC/APC

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2.Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

1x2 1310/1550 nm 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	1300 to 1320nm		
Insertion Loss	Max.	dB	0.3	0.5	
Polarization Extinction ratio	Min.	dB	18	16	
Isolation @ 1540 to 1560nm	Min.	dB	16	14	
1550nm Channel		nm	1540 to 1560		
Insertion Loss	Max.	dB	0.3	0.5	
Polarization Extinction ratio	Min.	dB	18	16	
Isolation @ 1300 to 1320nm	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	S8	M1

Ordering Information

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

Note: 1.All specifications are before connectorization. For devices with connectors, PER will be 2dB lower.
2. Central Wavelength can be customized for different applications.
3.All specifications are subject to change without notice.

2x1 Fused PM Fiber Standard Combiner



Product Features

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

Product Applications

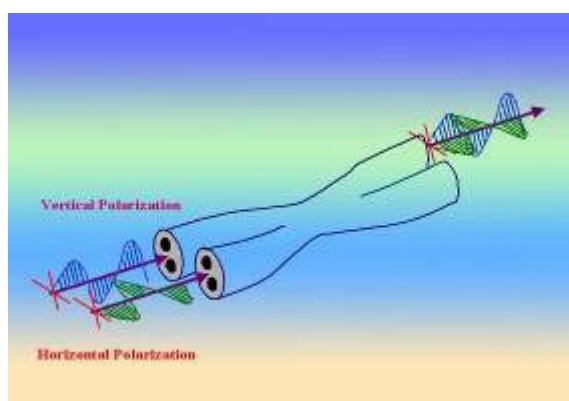
- Pump Combining for EDFA
- High Power Source
- Polarization-independent Source

Specifications

Parameter	Unit	Premium	A grade
Port Configuration		2x1	
Central Wavelength	nm	980,1060,1310, 1480,1550	
Bandwidth	nm	±10	
Insertion Loss in Slow Axis Channel	Max. dB	0.4	0.6
Insertion Loss in Fast Axis Channel	Max. dB	0.8	1.1
Insertion Loss in Fast Axis Channel	Typ. dB	0.5	0.7
Return Loss*	Min. dB	45	
Power Handling	Min. mw	1000	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Package Type	mm	S9	S10 M3

* Test at central wavelength only.

Typical Spectrum



Ordering Information

P	M	S	C							
Wavelength	Structure	Grade	Package	Fiber Type	Fiber Length	Connector				
4=1550nm 5=1480nm 7=1310nm 8=1060nm 9=980nm	Y=2x1	P=Premium A=A grade	8=S9 with 250um bare fiber pigtail 9=S10with 0.9mm loose tube F=M3 with 3mm cable	E=Panda fiber	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 3=FC/APC				

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

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 Grade	A grade
Central Wavelength	nm	980,1060,1310,1480,1550	
Insertion Loss @ 1310, 1480, 1550	Max. dB	0.25	0.30
Insertion Loss @ 980, 1060	Max. dB	0.60	0.80
Polarization Extinction Ratio	Min. dB	22	20
Return Loss*	Min. dB	≥50 for PC, ≥60 for APC	
Directivity	Min. dB	55	
Operating power	Max. W	5	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	

* Test at central wavelength only.

PORT1

PORT2



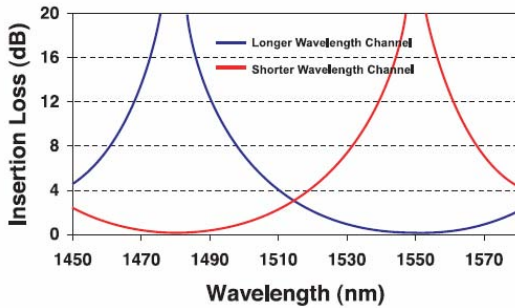
Ordering Information

P	F	P	C									
				Wavelength	Grade	Cable Type	Fiber Type	Cable Length	Align at Port1	Align at Port2	Connector at Port 1	Connector at port 2
				4=1550nm 5=1480nm 7=1310nm 8=1060nm 9=980nm	P=Premium A=A grade	S=250um bare fiber M=0.9mm loose tube L=3mm cable	E= 250um Panda fiber	1= 1.0 m 2= 2.0 m 3= 3.0 m 4= 4.0 m 5= 5.0 m	S=Slow Axis F=Fast Axis	S=Slow Axis F=Fast Axis	1=FC/PC 3=FC/APC	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.

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

1480/1550nm WDM Typical Spectrum



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
Return Loss*	Min.	dB	50			
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			

* Test at central wavelength only.

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	5,000 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)	5,000 hours
Impact Test (drop test, 1.8m)	20 times/each axis (3 axes)
Vibration Test (10 to 2,000 Hz/20g)	30 minutes/12 times (3 axes)

Ordering Information

H	W	D	M			O	O					
Wavelength		Structure		Grade		Package		Fiber Type		Pigtail		Fiber Length
7=1480/1550nm 9=1475/1558nm		1=1x2 2=2x2		P=Premium A=A grade		8=S9		1=SMF-28e		S=250um bare fiber		0=0.5m 1=1.0m 2=1.5m 3=2.0m

Note: All specifications are subject to change without notice.

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
Return Loss*	Min. dB	50	
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

* >60dB on request for 1x2 structure.

Test at central wavelength only.

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	5,000 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)	5,000 hours
Impact Test (drop test, 1.8m)	20 times/each axis (3 axes)
Vibration Test (10 to 2,000 Hz/20g)	30 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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length
				1=1625nm 2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1060nm 9=980nm	1=1x2 2=2x2	05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 50=50:50	P=Premium A=A grade	5=S6	1=SMF-28e 7=HI1060 FLEX 8=OFS 980-16	S=250um bare fiber	0=0.5m 1=0.75m 2=1.0m

Note: All specifications are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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

* >60dB on request for 1x2 structure.

Test at central wavelength only.

Ultra-High Reliability Test

Results

High Temperature Storage (85°C)	5,000 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)	5,000 hours
Impact Test (drop test, 1.8m)	20 times/each axis (3 axes)
Vibration Test (10 to 2,000 Hz/20g)	30 minutes/12 times (3 axes)

Splitting Ratio & Insertion Loss Conversion Table

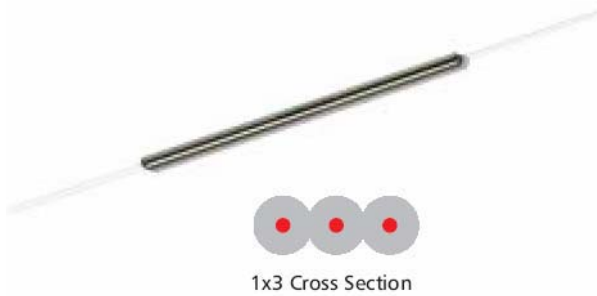
Splitting Ratio	Maximum Insertion Loss(dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0

Ordering Information

H	R	B	S								
				Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length
				C=C Band L=L Band	1=1x2 2=2x2	99=99:1 96=96:2 97=97:3 96=96:4 95=95:5	P=Premium A=A grade	5=S6	1=SMF-28e	S=250um bare fiber	0=0.5m 1=1.0m 2=1.5m 3=2.0m

Note: All specifications are subject to change without notice.

1x3 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
- 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
Return Loss*	Min.	dB	50	
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	

* Test at central wavelength only.

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	5,000 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)	5,000 hours
Impact Test (drop test, 1.8m)	20 times/each axis (3 axes)
Vibration Test (10 to 2,000 Hz/20g)	30 minutes/12 times (3 axes)

Ordering Information

H	R	N	S								
				Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length
				4=1550nm 5=1480nm 7=1310nm	3=1x3	33=33:33:33	P=Premium A=A grade	5=S6	1=SMF-28e	S=250um bare fiber	0=0.5m 1=1.0m 2=1.5m 3=2.0m

Note: All specifications are subject to change without notice.

2x2 1475nm 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
Return Loss*	Min.	dB	50	
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

* Test at central wavelength only.

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	5,000 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)	5,000 hours
Impact Test (drop test, 1.8m)	20 times/each axis (3 axes)
Vibration Test (10 to 2,000 Hz/20g)	30 minutes/12 times (3 axes)

Ordering Information

H	R	N	S								
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length				
6=1475nm	2=2x2	50=50:50	P=Premium A=A grade	5=S6	1=SMF-28e	S=250um bare fiber	0=0.5m 1=1.0m 2=1.5m 3=2.0m				

Note: All specifications are subject to change without notice.

2x2 980nm 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
Return Loss*	Min.	dB	50	
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	

* Test at central wavelength only.

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	5,000 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)	5,000 hours
Impact Test (drop test, 1.8m)	20 times/each axis (3 axes)
Vibration Test (10 to 2,000 Hz/20g)	30 minutes/12 times (3 axes)

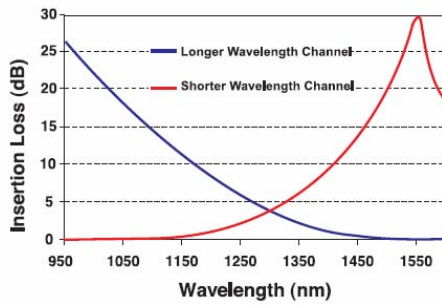
Ordering Information

H	R	N	S								
				Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length
				9=980nm	2=2x2	50=50:50	P=Premium A=A grade	5=S6	7=H1060 FLEX 8=OFS 980-16	S=250um bare fiber	0=0.5m 1=0.75m 2=1.0m

Note: All specifications are subject to change without notice.

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

980/1550nm WDM Typical Spectrum



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
Return Loss*	Min.	dB	50			
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			

* Test at central wavelength only.

Ultra-High Reliability Test	Results
High Temperature Storage (85°C)	5,000 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)	5,000 hours
Impact Test (drop test, 1.8m)	20 times/each axis (3 axes)
Vibration Test (10 to 2,000 Hz/20g)	30 minutes/12 times (3 axes)

Ordering Information

H	W	D	M			O	O					
Wavelength		Structure		Grade		Package		Fiber Type		Pigtail		Fiber Length
1=980/1550nm		1=1x2		P=Premium		5=S6		7=H11060 FLEX		S=250um		0=0.5m
2=980/1590nm		2=2x2		A=A grade				8=OFS 980-16		bare fiber		1=0.75m
												2=1.0m

Note: All specifications are subject to change without notice.

Comcore' Single Mode Fiber WDMs Are Your Ultimate Choice

Perfect Design

Loss-Free Characteristics

High Pump Usability

Long-Term Stability

1060/1310nm Single Mode Fiber WDM



Product Features

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

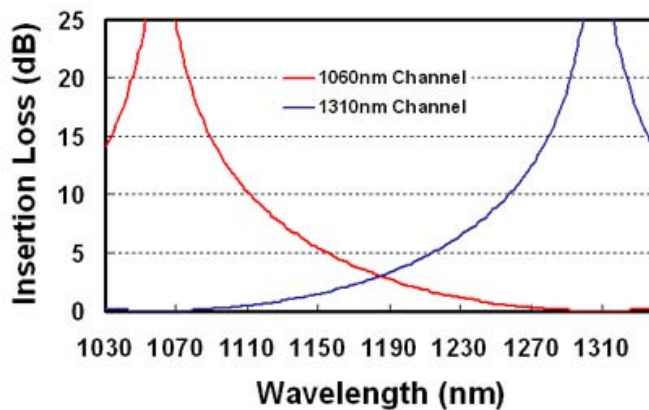
Product Applications

- Optical Communication System
- Optical Fiber Amplifier

Specifications			1060/1310nm	
Parameter	Unit		Premium	A grade
Shorter Wavelength Channel	nm		1060±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 @ 1060±15 nm	Min.	dB	17	16
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

W	D	M			O	O						
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector					
G=1060nm/ 1310nm	1=1x2 2=2x2	P=Premium A=A grade	5=S6 7=S8 D=M1	7=HI1060 FLEX 8=OFS 980-16	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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 3mm cable

* Test at central wavelength only.

Ordering Information

W	D	M			O	O						
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector					
H=1310nm/ 1490nm/ 1550nm	3=1x3	P=Premium A=A grade	I=M6	1=SMF-28e	M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

1310/1490nm Single Mode Fiber WDM



Product Features

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

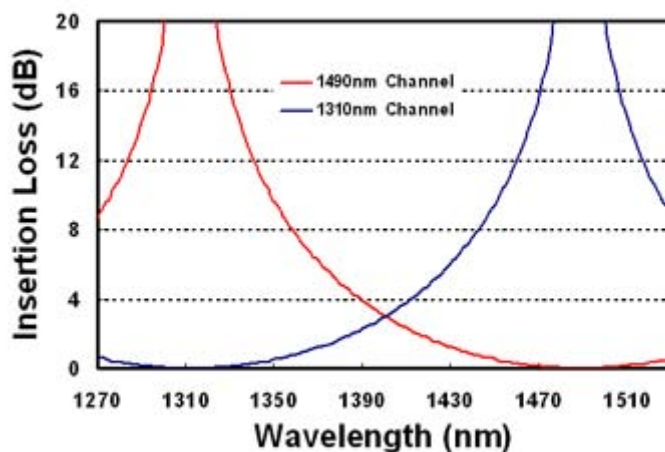
Product Applications

- 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
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

W	D	M			O	O						
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector					
D=1310nm/ 1490nm	1=1x2 2=2x2	P=Premium A=A grade	C=S13 8=S9 D=M1	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

1310/1550nm Single Mode Fiber WDM



Product Features

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

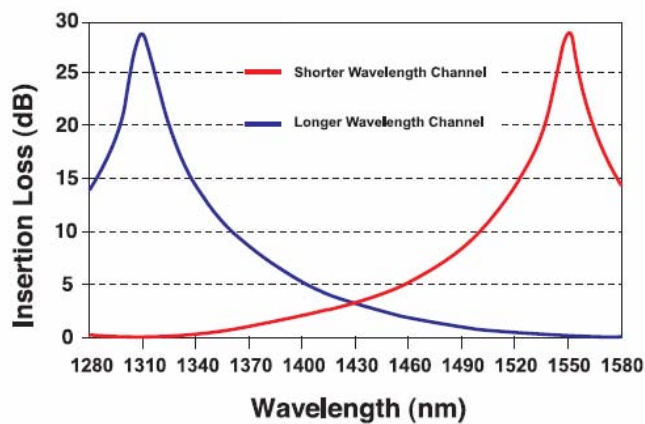
Product Applications

- 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
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

W	D	M			O	O						
Wavelength			Structure		Grade		Package		Fiber Type		Pigtail	
5=1310nm/ 1550nm			1=1x2 2=2x2		P=Premium A=A grade		5=S6 7=S8 D=M1		1=SMF-28e		S=250um bare fiber M=0.9mm loose tube L=3mm cable	
Fiber Length			Connector									
0=0.5m 1=1.0m 2=1.5m			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: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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 3mm cable

* Test at central wavelength only.

Ordering Information

W	D	M			O	O						
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector					
5=1310nm/ 1550nm	1=1x2	H=High Isolation U=Ultra-High Isolation	H=M5	1=SMF-28e	M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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



Product Features

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

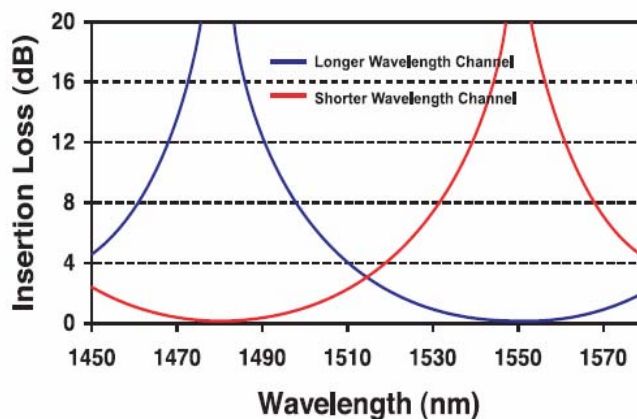
Product Applications

- 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
Return Loss*	Min.	dB	50			
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	7.5x18x100: for 0.9mm loose tube or 3mm cable		

* Test at central wavelength only.

1480/1550nm WDM Typical Spectrum



Ordering Information

W	D	M			O	O							
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector						
7=1480nm/ 1550nm 8=1480nm/ 1590nm	1=1x2 2=2x2	P=Premium A=A grade	8=S9 9=S10 F=M3	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

1550/1625nm Single Mode Fiber WDM



Product Features

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

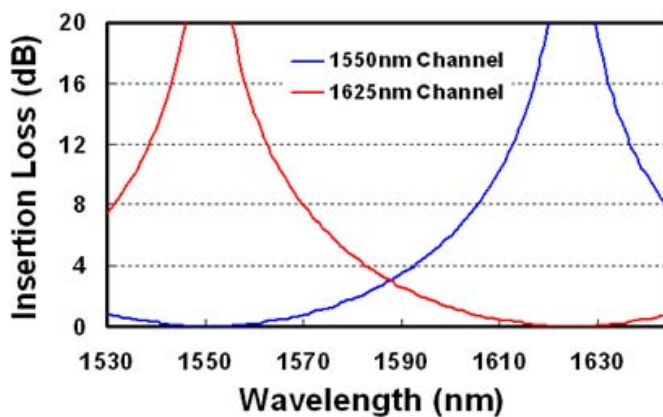
Product Applications

- 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
Return Loss*	Min. dB		50	
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	7.5x18x100: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

W	D	M									
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
6=1550nm/ 1625nm	1=1x2 2=2x2	P=Premium A=A grade	8=S9 9=S10 F=M3	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

980/1060nm Single Mode Fiber WDM



Product Features

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

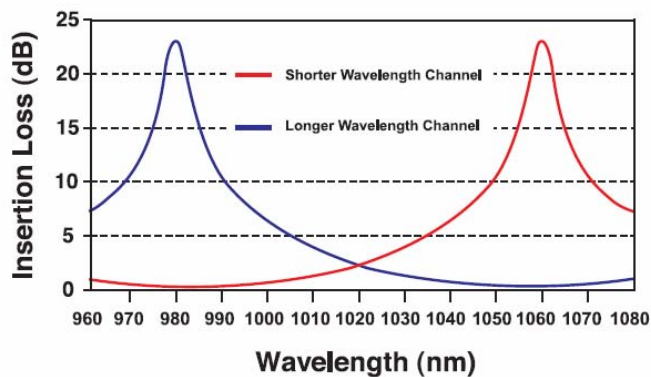
Product Applications

- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

Specifications			980/1060nm	
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 @ 1060±5 nm	Min.	dB	15	13
Longer Wavelength Channel		nm	1060±5	
Insertion Loss	Max.	dB	0.3	0.4
PDL	Max.	dB	0.1	0.15
Isolation @ 980±5 nm	Min.	dB	15	13
Return Loss*	Min.	dB	50	
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	7.5x18x100: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

W	D	M			O	O						
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector					
C=980nm/ 1060nm	1=1x2 2=2x2	P=Premium A=A grade	8=S9 9=S10 F=M3	7=HI1060 FLEX 8=OFS 980-16	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.

980/1310nm Single Mode Fiber WDM



Product Features

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

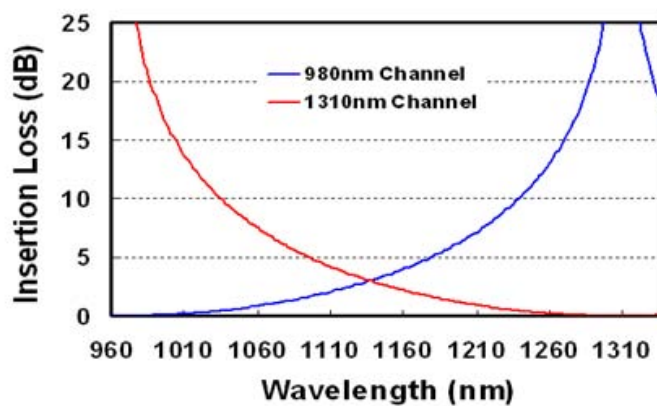
Product Applications

- 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	16
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
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

W	D	M			O	O						
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector					
4=980nm/ 1310nm	1=1x2 2=2x2	P=Premium A=A grade	5=S6 7=S8 D=M1	7=HI1060 FLEX 8=OFS 980-16	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.

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

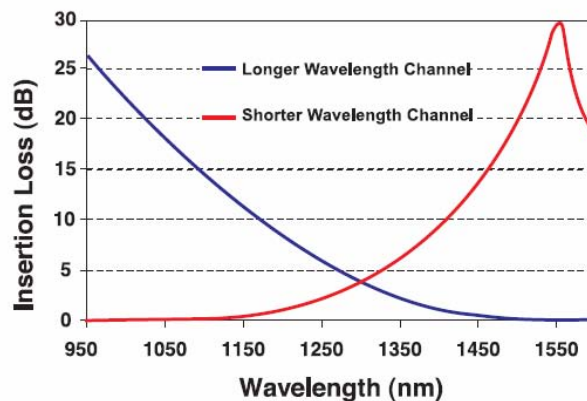
Product Applications

- 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
Return Loss*	Min.	dB	50	
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

* Test at central wavelength only.

980nm/C Band WDM Typical Spectrum



Ordering Information

S	W	D	M												
Wavelength		Structure		Grade		Package		Fiber Type		Pigtail		Fiber Length		Connector	
1=980nm/ C Band 2=980nm/ L Band		1=1x2 2=2x2		P=Premium A=A grade		3=S4 5=S6		7=H11060FLEX 8=OFS 980-16		S=250um bare fiber M=0.9mm loose tube		0=0.5m 1=0.75m 2=1.0m		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: All specifications are before connectors and are subject to change without notice.

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

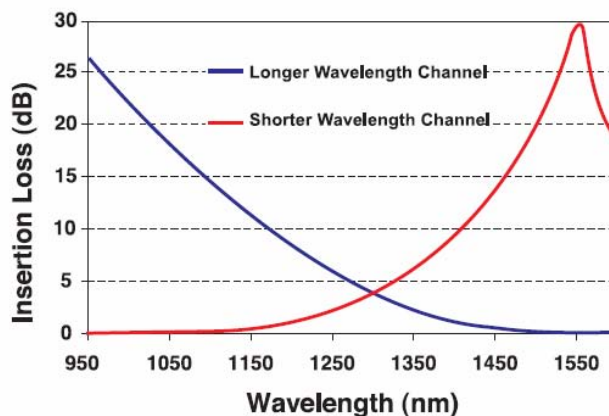
Product Applications

- 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	0.10	0.15
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	0.10	0.15
PDL	Max.	dB	0.01	0.02
Isolation @ 960 to 990 nm	Min.	dB	20	18
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

980nm/C Band WDM Typical Spectrum



Ordering Information

W	D	M			O	O						
Wavelength			Structure		Grade		Package	Fiber Type	Pigtail	Fiber Length	Connector	
1=980nm/ C Band 2=980nm/ L Band			1=1x2 2=2x2		P=Premium A=A grade		5=S6 7=S8 D=M1	7=HI1060 FLEX	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.

HI1060 FLEX Fiber 980nm/C+L Band WDM



Product Features

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

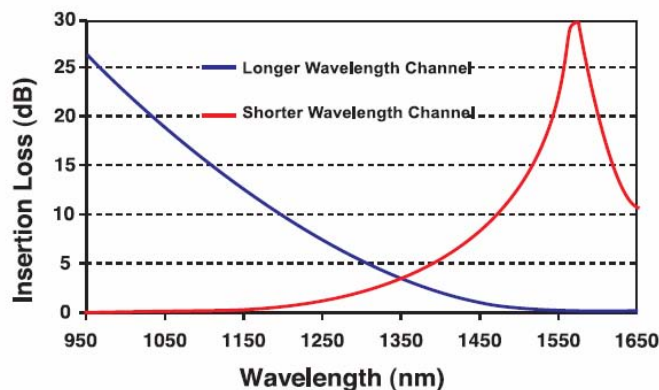
Product Applications

- 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	0.15
PDL	Max.	dB	0.02	0.03
Isolation @ C + L band	Min.	dB	15	14
Longer Wavelength Channel		nm	C+L Band (1528 to 1605)	
Insertion Loss	Max.	dB	0.2	0.25
PDL	Max.	dB	0.02	0.03
Isolation @ 960 to 990 nm	Min.	dB	20	18
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

W	D	M			O	O									
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		7=HI1060 FLEX		S=250um bare fiber M=0.9mm loose tube L=3mm cable		0=0.5m 1=0.75m 2=1.0m		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=L.C B=SC/PC	

Note: All specifications are before connectors and are subject to change without notice.

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

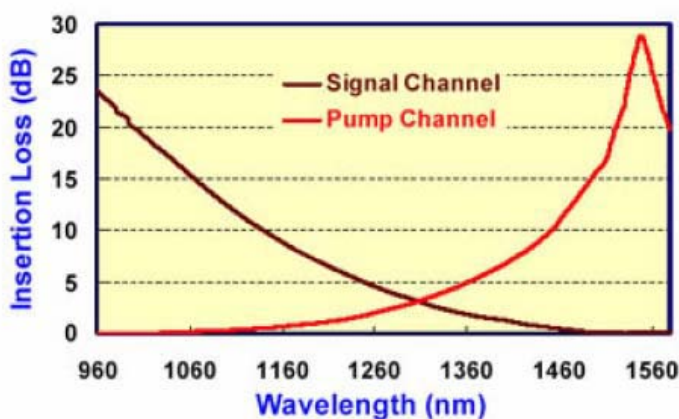
Product Applications

- 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	0.02	0.03
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	0.02	0.03
Isolation @ 960 to 990 nm	Min.	dB	20	20
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

980nm/C Band WDM Typical Spectrum



Ordering Information

W	D	M			O	1						
Wavelength	Structure	Fiber Type	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
1=980nm/ C Band 2=980nm/ L Band	1=1x2 2=2x2	(Signal port) 1=SMF-28e	P=Premium A=A grade	5=S6 7=S8 D=M1	7=HI1060FLEX 8=OFS 980-16	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.

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



Product Features

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

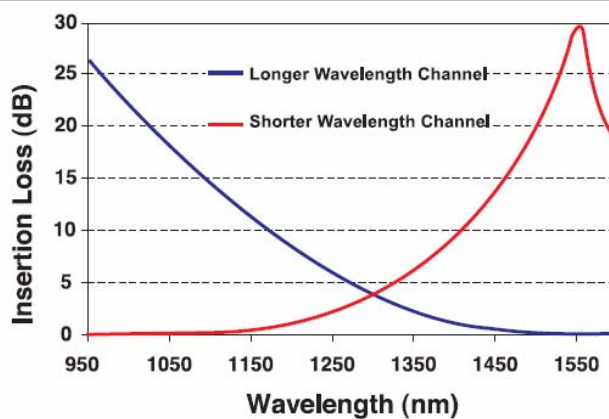
Product Applications

- 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	0.15	0.20
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	0.15	0.20
PDL	Max.	dB	0.05	0.05
Isolation @ 960 to 990 nm	Min.	dB	20	18
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

980nm/C Band WDM Typical Spectrum



Ordering Information

W	D	M									
Wavelength	Structure	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
1=980nm/ C Band 2=980nm/ L Band	1=1x2 2=2x2	P=Premium A=A grade	5=S6 7=S8 D=M1	8=OFS 980-16	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.

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



Product Features

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

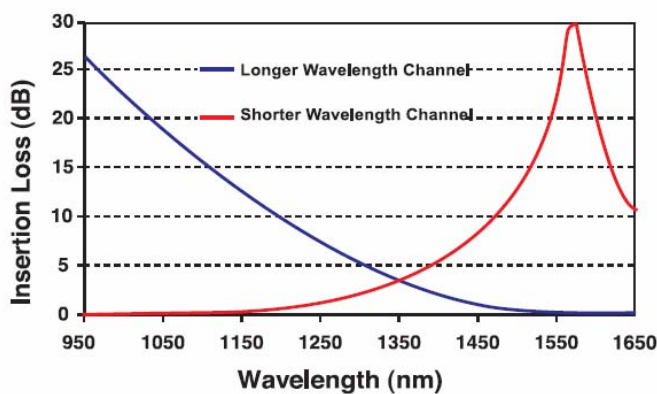
Product Applications

- 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	0.15	0.20
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	0.25	0.3
PDL	Max.	dB	0.05	0.05
Isolation @ 960 to 990 nm	Min.	dB	20	18
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* Test at central wavelength only.

Typical Spectrum

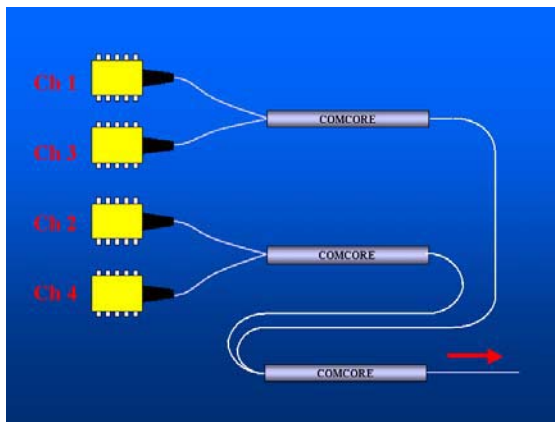


Ordering Information

W	D	M			O	O						
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=OFS 980-16	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.

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

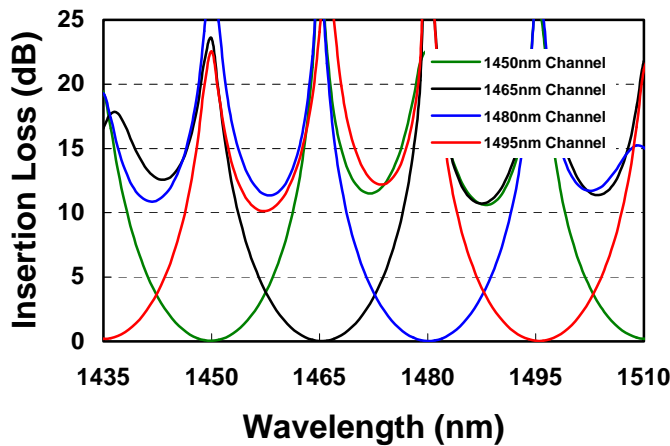
- High Power Sources
- Optical Amplifiers
- Optical Instrument

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
Directivity	Min.	dB	55
Return Loss*	Min.	dB	55
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

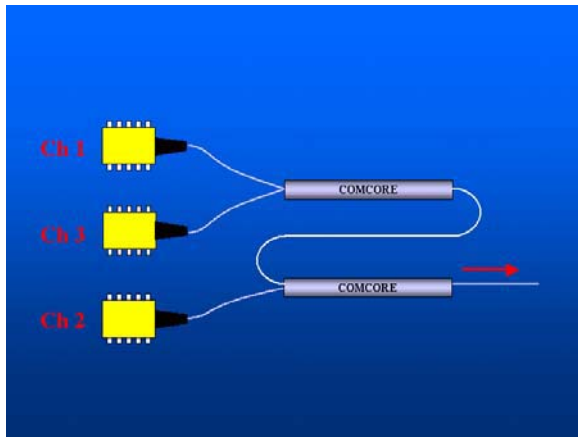


Ordering Information

W	P	C	4							
				Starting Wavelength	Channel Space	Package	Fiber Type	Pigtail	Fiber Length	Connector
				00=1400nm	10=10nm	9=S10	1=SMF28e	S=250um	0=0.5m	0=None
				01=1401nm	11=11nm			bare fiber	1=1.0m	1=FC/PC
				02=1402nm	12=12nm				2=1.5m	3=FC/APC
								
				40=1440nm	15=15nm					
				41=1441nm	16=16nm					
								
				78=1478	18=18nm					
				79=1479nm	19=19nm					
				80=1480nm	20=20nm					

Note: All specifications are before connectors and are subject to change without notice.

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

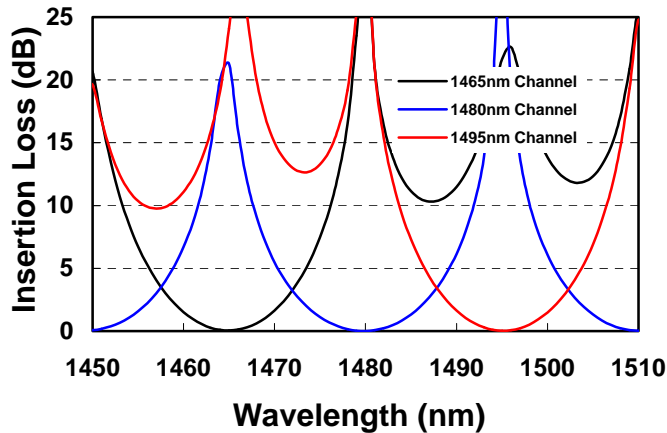
Parameters

Specifications

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
Directivity	Min. dB		55
Return Loss*	Min. dB		55
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	

* Channel 1 and 3 are the shortest and the longest wavelength Channels, individually.

Typical Spectrums for 1465/1480/1495nm Combiner

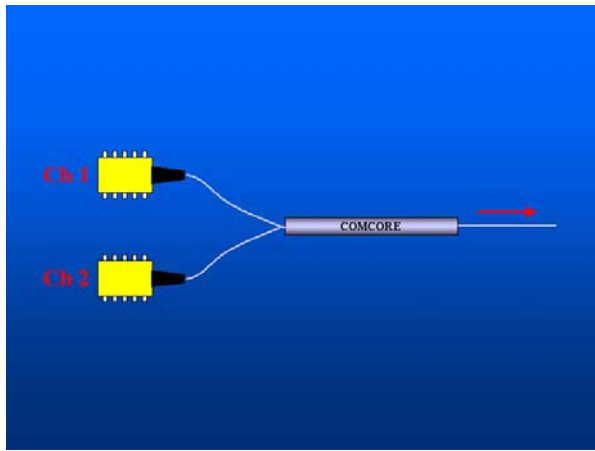


Ordering Information

W	P	C	3							
				Starting Wavelength	Channel Space	Package	Fiber Type	Pigtail	Fiber Length	Connector
				00=1400nm	10=10nm	9=S10	1=SMF28e	S=250um bare fiber	0=0.5m	0=None
				01=1401nm	11=11nm				1=1.0m	1=FC/PC
				02=1402nm	12=12nm				2=1.5m	3=FC/APC
				.	15=15nm					
				50=1450nm	19=19nm					
				51=1451nm	20=20nm					
				.	25=25nm					
				78=1478	26=26nm					
				79=1479nm	29=29nm					
				80=1480nm	30=30nm					

Note: All specifications are before connectors and are subject to change without notice.

14xx Two-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

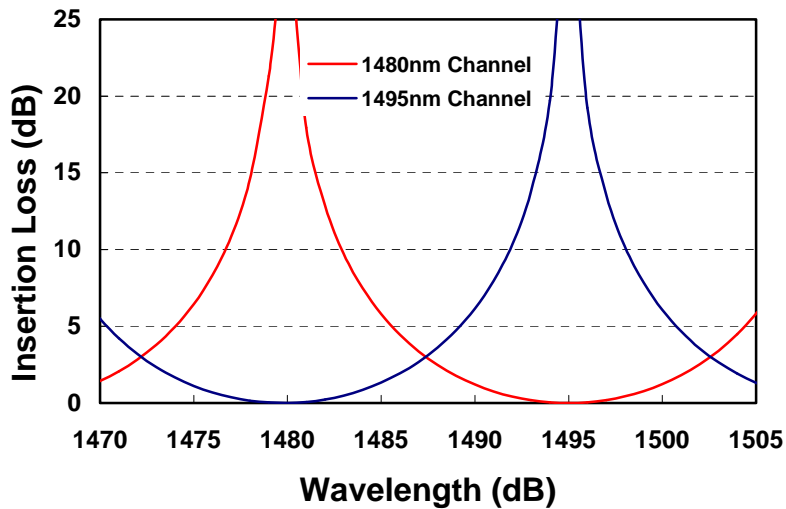
- High Power Sources
- Optical Amplifiers
- Optical Instrument

Parameters

Specifications

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	
Directivity	Min.	dB		55	
Return Loss*	Min.	dB		55	
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	Channel Space	Package	Fiber Type	Pigtail	Fiber Length	Connector				
00=1400nm 01=1401nm 02=1402nm . . 50=1450nm 51=1451nm . . 87=1487nm 88=1488nm 89=1489nm	10=10nm 11=11nm 12=12nm . . 15=15nm 16=17nm 17=17nm . . 38=38nm 39=39nm 40=40nm	9=S10	1=SMF28e	S=250um bare fiber	0=0.5m 1=1.0m 2=1.5m	0=None 1=FC/PC 3=FC/APC				

Note: All specifications are before connectors and are subject to change without notice.

1x2 PDL-Free 50/50 Broadband Splitter



Product Features

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

Product Applications

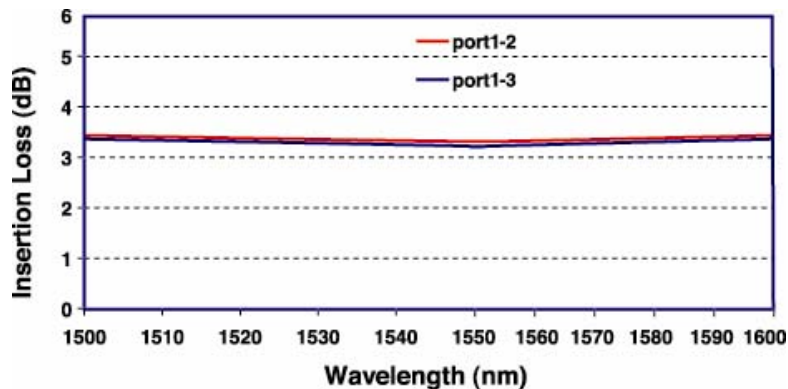
- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

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
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* >60dB on request.

Test at central wavelength only.

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	1=1x2	50=50:50	P=Premium A=A grade	5=S6 7=S8 D=M1	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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	±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
Return Loss*	Min.	dB	50	
Operating power	Max.	W	5	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S1	Ø3x20: for bare fiber
			S5	Ø3x30: for 0.9mm loose tube

* Test at central wavelength only.

Ordering Information

S	N	S									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 5=1480nm 7=1310nm 9=980nm A=850nm	1=1x2 2=2x2	50=50:50	P=Premium A=A grade	0=S1 4=S5	A=Coming RC SMF-28 B=Coming RC HI1060 FLEX C=OFS SMM-D1310A	S=250µm bare fiber M=0.9mm loose tube	0=0.5m 1=0.75m 2=1.0m	0=None

Note: 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	
Return Loss*	Min. dB	50		
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	
		S14	Ø3x45: for 0.9mm loose tube	

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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	1.1	7.4	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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
1=1625nm	1=1x2	05=99.5:0.5	P=Premium	3=S4	1=SMF-28e	S=250um bare fiber	0=0.5m	0=None		
2=1590nm	2=2x2	99=99:1	A=A grade	L=S14		M=0.9mm loose tube	1=1.0m	1=FC/PC		
3=1570nm		98=98:2					2=1.5m	2=FC/SPC		
4=1550nm		97=97:3						3=FC/APC		
5=1480nm		96=96:4						4=SC/SPC		
6=1475nm		95=95:5						5=SC/APC		
7=1310nm		90=90:10						6=ST		
		80=80:20						7=FC/UPC		
		70=70:30						8=SC/UPC		
		60=60:40						9=MU		
		50=50:50						A=LC		
								B=SC/PC		

Note: All specifications are before connectors and are subject to change without notice.

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	±10		
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	
Return Loss*	Min. dB	50		
Operating power	Max. W	5		
Operating Temperature	°C	-40 to +85		
Storage Temperature	°C	-50 to +85		
Package Type	mm	S3	Ø3x30 for bare fiber	
		S5	Ø3x40 for 0.9mm loose tube	

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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	1.1	7.4	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	N	S								
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
1=1625nm	1=1x2	05=99.5:0.5	P=Premium	2=S3	1=SMF-28e	S=250um bare fiber	0=0.5m	0=None		
2=1590nm	2=2x2	99=99:1	A=A grade	4=S5		M=0.9mm loose tube	1=1.0m	1=FC/PC		
3=1570nm		98=98:2					2=1.5m	2=FC/SPC		
4=1550nm		97=97:3						3=FC/APC		
5=1480nm		96=96:4						4=SC/SPC		
6=1475nm		95=95:5						5=SC/APC		
7=1310nm		90=90:10						6=ST		
		80=80:20						7=FC/UPC		
		70=70:30						8=SC/UPC		
		60=60:40						9=MU		
		50=50:50						A=LC		
								B=SC/PC		

Note: All specifications are before connectors and are subject to change without notice.

1x2(2x2) PDL-Free 50/50 Narrowband 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 or 2x2	
Bandwidth		nm	±10	
Insertion Loss	Max.	dB	3.4	3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.5	0.8
PDL	Max.	dB	0.01	0.02
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable

* >60dB on request for 1x2 structure.

Test at central wavelength only.

Ordering Information

N	N	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	1=1x2 2=2x2	50=50:50	P=Premium A=A grade	5=S6 7=S8 D=M1	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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	3.7	4.0
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.9	1.3
PDL	Max.	dB	0.15	0.20
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* >60dB on request for 1x2 structure.

Test at central wavelength only.

Splitting Ratio & Insertion Loss Conversion Table

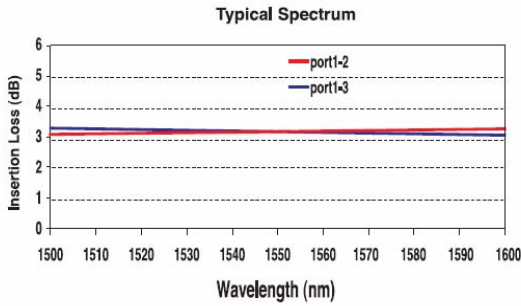
Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A grade	
	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.7	3.7	4.0	4.0
60:40	2.7	4.8	2.9	5.1
70:30	2.0	6.2	2.2	6.6
80:20	1.3	8.0	1.5	8.5
90:10	0.6	11.5	0.8	12.9
95:5	0.4	15.6	0.5	19.2
98:2	0.3	20	0.4	21.5
99:1	0.3	24	0.4	24.6

Ordering Information

A	B	S									
			Wavelength H=1270 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=SMF-28e	Pigtail S=250um bare fiber M=0.9mm loose tube L=3mm cable	Fiber Length 0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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

S	B	S									
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector			
1=1625nm	1=1x2	05=99.5:0.5	P=Premium	5=S6	1=SMF-28e	S=250um bare fiber	0=0.5m	0=None			
2=1590nm	2=2x2	99=99:1	A=A grade	7=S8		M=0.9mm loose tube	1=1.0m	1=FC/PC			
3=1570nm		98=98:2		D=M1		L=3mm cable	2=1.5m	2=FC/SPC			
4=1550nm		97=97:3						3=FC/APC			
5=1480nm		96=96:4						4=SC/SPC			
6=1475nm		95=95:5						5=SC/APC			
7=1310nm		...						6=ST			
		50=50:50						7=FC/UPC			
								8=SC/UPC			
								9=MU			
								A=LC			
								B=SC/PC			

Note: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min. dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector			
0=1310&1550nm	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=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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
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
Return Loss*	Min. dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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

S	N	S								
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
1=1625nm	1=1x2	05=99.5:0.5	P=Premium	5=S6	1=SMF-28	S=250um	0=0.5m	0=None		
2=1590nm	2=2x2	99=99:1	A=A grade	7=S8	7=H11060 FLEX	bare fiber	1=0.75m	1=FC/PC		
3=1570nm		98=98:2		D=M1	8=OFS 980-16	M=0.9mm	2=1.0m	2=FC/SPC		
4=1550nm		97=97:3				loose tube		3=FC/APC		
5=1480nm		96=96:4				L=3mm cable		4=SC/APC		
6=1475nm		95=95:5						5=SC/APC		
7=1310nm		...						6=ST		
8=1060nm		50=50:50						7=FC/UPC		
9=980nm								8=SC/UPC		
								9=MU		
								A=LC		
								B=SC/PC		

Note: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
G=1310& 1490& 1550nm	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=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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	3.7	4.0	
Excess Loss	Typ. dB	0.07	0.1	
Uniformity	Max. dB	0.9	1.3	
PDL	Max. dB	0.15	0.20	
Return Loss*	Min. dB	50		
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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	3.7	3.7	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

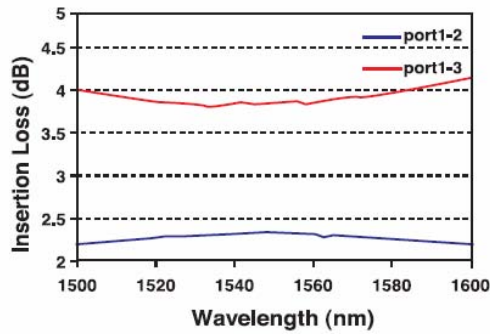
Ordering Information

U	B	S								
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
M=1310 & 1450 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=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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

**Typical Spectrum
(Splitting Ratio 60:40)**



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	
Return Loss*	Min. dB	50		
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	10x20x90: for 0.9mm loose tube or 3mm cable	

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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

Ordering Information

L	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	1=1x2 2=2x2	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=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: 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
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	0.03	0.05
Return Loss*	Min. dB	50	
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	10x20x90: for 0.9mm loose tube or 3mm cable

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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
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

L	N	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	1=1x2 2=2x2	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	P=Premium A=A grade	5=S6 7=S8 D=M1	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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
Typical Excess Loss	dB	0.03	
Return Loss ^{1,2} for 1x2 Structure	Min. dB	50	
Return Loss ² for 2x2 Structure	Min. dB	65	
Operating power ³	Max. W	50	
Operating Temperature	°C	-40 to +85	
Storage Temperature	°C	-50 to +85	
Fiber Type		Single Mode Fiber ³	
		S6	Ø3x54: for bare fiber
Package Type	mm	S8	Ø3x70: for 0.9mm loose tube
		M1	10x20x90: for 0.9mm loose tube or 3mm cable

1. >60dB on request for 1x2 structure.

2. Test at central wavelength only.

3. It is only for single mode fiber with large core. If you would like to use your own fiber, please contact our sales engineers.

4. Customer Design for any wavelengths from 780nm to 1600nm.

L	S	T									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			1=1625nm	1=1x2	01=0.1%	P=Premium	5=S6	1=SMF-28e	S=250um	0=0.5m	0=None
			2=1590nm	2=2x2	02=0.01%	A=A grade	7=S8	7=HI1060 FLEX	bare fiber	1=0.75m	
			3=1570nm		03=0.001%		D=M1	8=OFS 980-16	M=0.9mm	2=1.0m	
			4=1550nm						loose tube		
			5=1480nm						L=3mm cable		
			6=1475nm								
			7=1310nm								
			8=1060nm								
			9=980nm								
			A=850nm								

Note: All specifications are before connectors and are subject to change without notice.

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		nm	1310±40 and 1550±40							
Grade			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	
Return Loss*	Min.	dB	45							
Operating power	Max.	W	5							
Operating Temperature		°C	-20 to +85							
Storage Temperature		°C	-50 to +85							
Package Type		mm	M7 or M10		M8 or M11		M8 or M12		M9	
			M5: for 0.9mm loose tube or 3mm cable				M6: for 0.9mm loose tube or 3mm cable			

* Test at central wavelength only.

Ordering Information

S	D	M									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			0=1310nm& 1550nm	14=1x4 24=2x4 44=4x4 18=1x8 28=2x8 88=8x8 A6=1x16 B6=2x16 E2=1x32 F2=2x32	0=Even	P=Premium A=A grade	H=M5 I=M6 J=M7 K=M8 N=M9 O=M10 P=M11 Q=M12	1=SMF-28e	M=0.9mm loose tube L=3mm cable F=Adapting Flange	0=0.5m 1=1.0m 2=1.5m 3=2.0m 4=None	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: All specifications are before connectors and are subject to change without notice.

Star&Tree Single Mode Single-Window 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)		
Operating Wavelength		nm	1310 or 1550 or 1480 ± 40											
Grade			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	
Return Loss*	Min.	dB	45											
Operating power	Max.	W	5											
Operating Temperature		°C	-20 to +85											
Storage Temperature		°C	-50 to +85											
Package Type		mm	M7 or M10			M8 or M11			M8 or M12			M9		
			M5: for 0.9mm loose tube or 3mm cable						M6: for 0.9mm loose tube or 3mm cable					

* Test at central wavelength only.

Ordering Information

S	S	M										
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
4=1550nm 5=1480nm 7=1310nm	14=1x4 24=2x4 44=4x4 18=1x8 28=2x8 88=8x8 A6=1x16 B6=2x16 E2=1x32 F2=2x32	0=Even	P=Premium A=A grade U=Ultra-Low PDL	H=M5 I=M6 J=M7 K=M8 N=M9 O=M10 P=M11 Q=M12	1=SMF-28e	M=0.9mm loose tube L=3mm Cable F=Adapting Flange	0=0.5m 1=1.0m 2=1.5m 3=2.0m 4=None	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: All specifications are before connectors and are subject to change without notice.

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			Splitting Ratio: 33:33:33	
Parameter	Unit		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
Return Loss*	Min.	dB	50	
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 3mm cable	

* Test at central wavelength only.

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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector			
4=1550nm 5=1480nm 7=1310nm	3=1x3	98=1:98:1 90=5:90:05 33=33:33:33 20=40:20:40 10=45:10:45 02=49:2:49	P=Premium A=A grade	5=S6 7=S8 E=M2	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

1x3 Single Mode Dual-window Broadband Splitter



Product Features

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

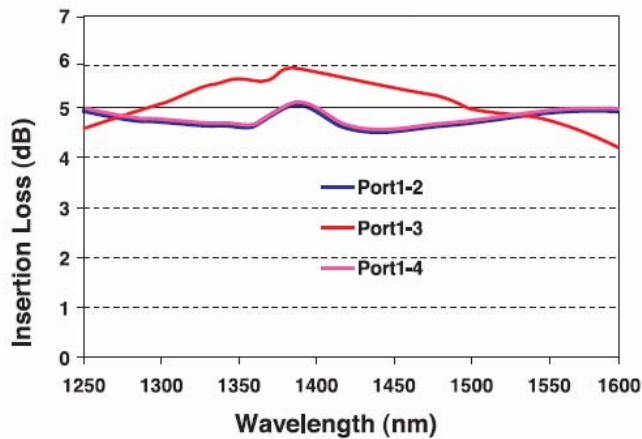
Product Applications

- 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	
Return Loss*	Min. dB	50		
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 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

D	B	S										
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
0=1310&1550nm	3=1x3	33=33:33:33	P=Premium A=A grade	5=S6 7=S8 E=M2	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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		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	0.03	0.07
Return Loss*	Min. dB	50	
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 3mm cable

* Test at central wavelength only.

Splitting Ratio & Insertion Loss Conversion Table

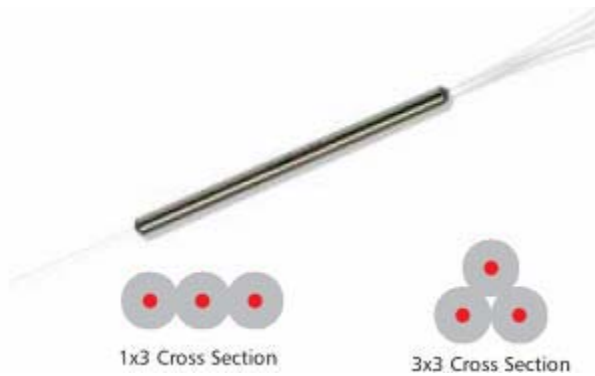
Splitting Ratio	Maximum Insertion Loss(dB)					
	Premium			A grade		
	Output Port 1	Output Port 2	Output Port 3	Output Port 1	Output Port 2	Output Port 3
40:20:40	4.5	7.8	4.5	4.8	8.2	4.8
35:30:35	5.2	5.7	5.2	5.4	6.0	5.4
33:33:33	5.4	5.4	5.4	5.7	5.7	5.7
30:40:30	5.7	4.4	5.7	6.0	4.7	6.0
25:50:25	6.6	3.4	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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector			
4=1550nm 5=1480nm 7=1310nm	3=1x3	99=0.5:99:0.5 98=1:98:1 90=5:90:5 ... 33=33:33:33 20=40:20:40	P=Premium A=A grade	5=S6 7=S8 E=M2	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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	±10				
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	0.1	0.15	
Return Loss*	Min. dB	50				
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 3mm cable			

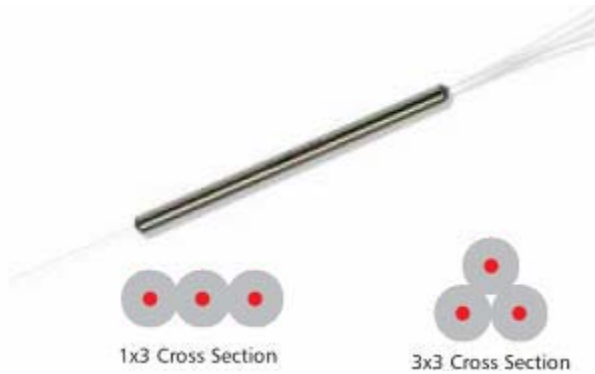
* Test at central wavelength only.

Ordering Information

S	N	S										
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
4=1550nm 5=1480nm 7=1310nm	3=1x3 A=3x3	33=33:33:33	P=Premium A=A grade	5=S6 7=S8 E=M2	A=Coming RC SMF-28	S=250µm bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.

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	±10			
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	0.20
Return Loss*	Min. dB	50			
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 3mm cable		

* Test at central wavelength only.

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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
4=1550nm 5=1480nm 7=1310nm	3=1x3 A=3x3	99=0.5:99:0.5 98=1:98:1 90=5:90:5 --- 33=33:33:33 20=40:20:40	P=Premium A=A grade	5=S6 7=S8 E=M2	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

1x4 Single Mode Broadband Splitter



Product Features

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

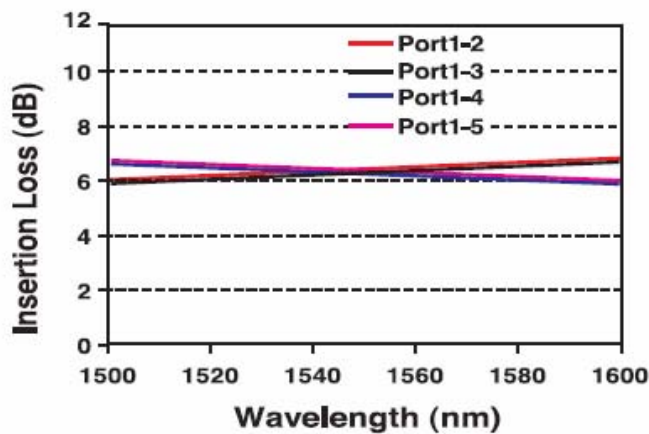
Product Applications

- 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
Return Loss*	Min.	dB	50	
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 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

S	B	S									
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector			
4=1550nm 5=1480nm 7=1310nm	4=1x4	25=25:25:25:25	P=Premium A=A grade	A=S11 B=S12 G=M4	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

1x4 Single Mode Dual-Window Broadband Splitter



Product Features

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

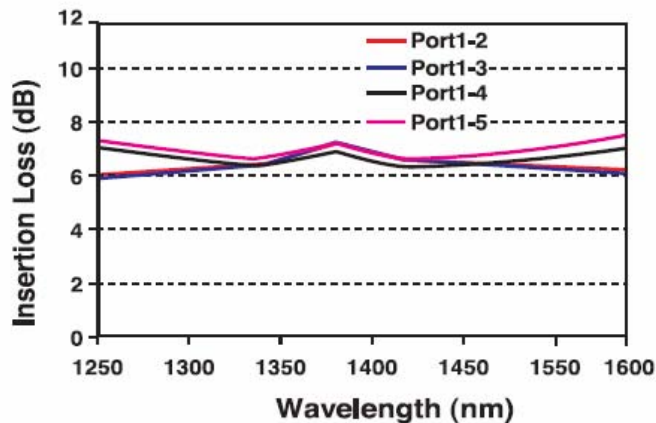
Product Applications

- 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	0.2	0.3
Return Loss*	Min.	dB	50	
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 3mm cable	

* Test at central wavelength only.

Typical Spectrum



Ordering Information

D	B	S									
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector			
0=1310&1550nm	4=1x4	25=25:25:25:25	P=Premium A=A grade	A=S11 B=S12 G=M4	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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 3mm cable

* Test at central wavelength only.

Ordering Information

S	N	S										
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
4=1550nm 5=1480nm 7=1310nm	4=1x4	25=25:25:25:25	P=Premium A=A grade	A=S11 B=S12 G=M4	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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

* Test at central wavelength only.

Ordering Information

S	B	S										
Wavelength			Structure		Splitting Ratio		Grade		Package		Fiber Type	
4=1550nm 5=1480nm 7=1310nm			E=1x5		20=20:20:20:20:20		P=Premium A=A grade		A=S11 B=S12		1=SMF-28e	
Pigtail			Fiber Length		Connector							
S=250um bare fiber M=0.9mm loose tube L=3mm cable			0=0.5m 1=1.0m 2=1.5m		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: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB		45	
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	

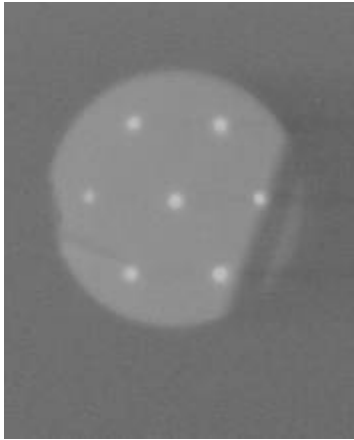
* Test at central wavelength only.

Ordering Information

S	B	S			O	O						
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector	
			4=1550nm 7=1310nm	6=1x6	00= Even	P=Premium A=A grade	B=S12	1=SMF-28e	S=250um bare fiber	0=0.5m 1=1.0m 2=1.5m	0=None	

Note: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	45	
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	

* Test at central wavelength only.

Ordering Information

S	B	S			O	O						
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector	
			4=1550nm 7=1310nm	7=1x7	00= Even	P=Premium A=A grade	B=S12	1=SMF-28e	S=250um bare fiber	0=0.5m 1=1.0m 2=1.5m	0=None	

Note: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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

* Test at central wavelength only.

Ordering Information

S	B	S									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 5=1480nm 7=1310nm	8=1x8	00=Even	P=Premium A=A grade	A=S11	1=SMF-28e	S=250um bare fiber	0=0.5m 1=1.0m	0=None

Note: All specifications are before connectors and are subject to change without notice.

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			Premium	A grade
Port Configuration			1x8	
Bandwidth			±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
Return Loss*	Min.	dB	50	
Operating power	Max.	W	5	
Operating Temperature			-40 to +85	
Storage Temperature			-50 to +85	
Package Type			S11	Ø4x60: for bare fiber

* Test at central wavelength only.

Ordering Information

S	N	S									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 5=1480nm 7=1310nm	8=1x8	00=Even	P=Premium A=A grade	A=S11	1=SMF-28e	S=250um bare fiber	0=0.5m 1=1.0m	0=None

Note: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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 3mm cable

* Test at central wavelength only.

Ordering Information

S	N	S										
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
4=1550nm 5=1480nm 7=1310nm	5=2x4	25=25:25:25:25	P=Premium A=A grade	A=S11 B=S12 G=M4	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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 3mm cable

* Test at central wavelength only.

Ordering Information

S	N	S										
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
4=1550nm 5=1480nm 7=1310nm	B=4x4	25=25:25:25:25	P=Premium A=A grade	A=S11 B=S12 G=M4	1=SMF-28e	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=1.0m 2=1.5m	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: All specifications are before connectors and are subject to change without notice.

1x2(2x2) 100/125μm Multi-Mode Broadband Splitter



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	P	A
Central Wavelength		nm	1550, 1310, 850, 630			
Bandwidth		nm	±20			
Insertion Loss	Max.	dB	3.3		3.6	
Excess Loss	Typ.	dB	0.2		0.3	
Uniformity	Max.	dB	0.5		0.8	
Return Loss*	Min.	dB	40			
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	10x20x90: for 0.9mm loose tube or 3mm cable		

* Test at central wavelength only.

Splitting Ratio & Insertion Loss Conversion Table for 1550, 1310, 850, 630nm

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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector		
4=1550nm 7=1310nm A=850nm B=630nm	1=1x2 2=2x2	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	4=100/125um	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice. Measured under the stable mode condition with LED source.

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	1550 or 1310			850		
Bandwidth	nm	±20					
Insertion Loss	Max. dB	3.5	4.0	4.5	3.8	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
Return Loss*	Min. dB	40					
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	10x20x90: for 0.9mm loose tube or 3mm cable				

* Test at central wavelength only.

Splitting Ratio & Insertion Loss Conversion Table for 1550, 1310 ± 20nm

Splitting Ratio	Maximum Insertion Loss (dB)					
	Ultra-Premium		Premium		A grade	
			Output Port2	Output 1	Output 2	
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 Port 1	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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 7=1310nm A=850nm	1=1x2 2=2x2	95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50	U=Ultra-Premium P=Premium A=A grade	5=S6 7=S8 D=M1	2=50/125µm	S=250 µm Bare fiber M=0.9mm Loose tube L=3mm Cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice. Measured under the stable mode condition with LED source.

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	1550 or 1310		850			
Bandwidth	nm	±20					
Insertion Loss	Max.	dB	3.5	3.9	3.8	4.3	4.7
Excess Loss	Typ.	dB	0.2	0.4	0.6	0.8	1.0
Uniformity	Max.	dB	0.5	0.8	0.5	0.5	0.8
Return Loss*	Min.	dB	40				
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	10x20x90: for 0.9mm loose tube or 3mm cable				

* Test at central wavelength only.

Splitting Ratio & Insertion Loss Conversion Table for 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 Port 1	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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 7=1310nm A=850nm	1=1x2 2=2x2	95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 50=50:50	U=Ultra-Premium P=Premium A=A grade	5=S6 7=S8 D=M1	3=62.5/125µm	S=250 µm Bare fiber M=0.9mm Loose tube L=3mm Cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice. Measured under the stable mode condition with LED source.

1x3(3x3) 50/125μm Multi-Mode Broadband Splitter



Product Features

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

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

1550, 1310, 850nm

Specifications			Splitting Ratio:		33:33:33	
Parameter	Unit		1x3		3x3	
Grade			P	A	P	A
Bandwidth	nm		±20			
Insertion Loss	Max.	dB	6.2	6.7	6.7	7.2
Excess Loss	Typ.	dB	0.3	0.5	0.5	0.7
Uniformity	Max.	dB	1.0	1.4	1.4	1.8
Return Loss*	Min.	dB	40			
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 3mm cable			

* Test at central wavelength only.

Ordering Information

M	B	S									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 7=1310nm A=850nm	3=1x3 A=3x3	33=33:33:33	P=Premium A=A grade	5=S6 7=S8 E=M2	2=50/125um	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

1x3(3x3) 62.5/125µm Multi-Mode Broadband Splitter



Product Features

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

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

1550, 1310, 850nm

Specifications			Splitting Ratio:		33:33:33	
Parameter	Unit		1x3		3x3	
Grade			P	A	P	A
Bandwidth	nm		±20			
Insertion Loss	Max.	dB	5.6	6.0	6.0	6.5
Excess Loss	Typ.	dB	0.2	0.4	0.3	0.5
Uniformity	Max.	dB	1.0	1.4	1.4	1.8
Return Loss*	Min.	dB	40			
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 3mm cable			

*Test at central wavelength only.

Ordering Information

M	B	S									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 7=1310nm A=850nm	3=1x3 A=3x3	33=33:33:33	P=Premium A=A grade	5=S6 7=S8 E=M2	3=62.5/125µm	S=250µm bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice. Measured under the stable mode condition with LED source.

1x4(4x4) 100/125μm Multi-Mode Broadband Splitter



Product Features

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

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

1550, 1310, 850nm

Specifications			Splitting Ratio:		25:25:25:25	
Parameter		Unit	1x4		4x4	
Grade			P	A	P	A
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
Return Loss*	Min.	dB	40			
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 3mm cable		

* Test at central wavelength only.

Ordering Information

M	B	S									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 7=1310nm A=850nm	4=1x4 B=4x4	25=25:25:25:25	P=Premium A=A grade	A=S11 B=S12 G=M4	4=100/125μm	S=250μm bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

1x4(4x4) 50/125µm Multi-Mode Broadband Splitter



Product Features

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

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

1550, 1310, 850nm

Specifications			Splitting Ratio: 25:25:25:25			
Parameter		Unit	1x4		4x4	
Grade			P	A	P	A
Bandwidth		nm	±20			
Insertion Loss	Max.	dB	7.5	8.0	8.0	8.5
Excess Loss	Typ.	dB	0.8	1.0	0.8	1.0
Uniformity	Max.	dB	1.2	1.6	1.8	2.2
Return Loss*	Min.	dB	40			
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 3mm cable		

* Test at central wavelength only.

Ordering Information

M	B	S										
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector	
			4=1550nm 7=1310nm A=850nm	4=1x4 B=4x4	25=25:25:25:25	P=Premium A=A grade	A=S11 B=S12 G=M4	2=50/125um	S=250um bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice. Measured under the stable mode condition with LED source.

1x4(4x4) 62.5/125µm Multi-Mode Broadband Splitter



Product Features

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

Product Applications

- Optical Communication System
- LAN
- FDDI
- Access Network

1550, 1310, 850nm

Specifications			Splitting Ratio: 25:25:25:25			
Parameter		Unit	1x4		4x4	
Grade			P	A	P	A
Bandwidth		nm	±20			
Insertion Loss	Max.	dB	7.0	7.5	7.5	8.0
Excess Loss	Typ.	dB	0.3	0.4	0.4	0.5
Uniformity	Max.	dB	1.2	1.6	1.8	2.2
Return Loss*	Min.	dB	40			
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 3mm cable		

* Test at central wavelength only.

Ordering Information

M	B	S									
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			4=1550nm 7=1310nm A=850nm	4=1x4 B=4x4	25=25:25:25:25	P=Premium A=A grade	A=S11 B=S12 G=M4	3=62.5/125µm	S=250µm bare fiber M=0.9mm loose tube L=3mm cable	0=0.5m 1=0.75m 2=1.0m	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: All specifications are before connectors and are subject to change without notice. Measured under the stable mode condition with LED source.

Multimode Power Combiners With A Feed Single Mode Fiber



Product Features

- High Coupling Efficiency
- All Fiber Construction
- Wide Bandwidth
- High Power Handling

Product Applications

- High Power All-fiber Lasers
- High Power Fiber Amplifiers
- Medical
- Defense

Specifications				
Parameter	Unit			
Port Configuration			(2+1) x1	(4+1) x1
Pump Wavelength range	nm		800-1000	
Signal Wavelength range	nm		1530 to 1580 or 1030 to 1080	
Pump Input Fiber 1	Core / Cladding Diameter	um	105 / 125	
	Numerical Aperture		0.22	
Pump Input Fiber 2	Core / Cladding Diameter	um	200 / 220	
	Numerical Aperture		0.22	
Signal Input Fiber 1 (OFS980)	Core / Cladding Diameter	um	6 / 125	
	Numerical Aperture		0.14	
Signal Input Fiber 2 (SMF28)	Core / Cladding Diameter	um	10 / 125	
	Numerical Aperture		0.08	
Output Fiber Type 1	Core / Cladding Diameter	um	20 / 200	
	Numerical Aperture		0.11 / 0.46	
Output Fiber Type 2	Core / Cladding Diameter	um	20 / 400	
	Numerical Aperture		0.06 / 0.46	
Signal Transfer efficiency	Min	%	90	90
Pump Transfer efficiency	Min	%	93	90
Return loss	Min	dB	40	
Operating power per input port	Max	W	5	
Operating Temperature			°C 0 to +85	
Storage Temperature			°C -50 to +85	
Package Type	mm		S6: ø3x54 For bare fiber	S11: ø4x60 For bare fiber

Ordering Information

M	P	C	M	S							
					Signal Wavelength	Structure	Input Pump Fiber Type	Input Signal Fiber Type	Output Fiber Type	Fiber Length	Connector
					4=1550nm 8=1064nm	21=(2+1) x1 41=(4+1) x1	1 2	1 2	1 2	0=0.5m 1=0.75m 2=1.0m	0=None

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

Multimode Power Combiners



Product Features

- High Coupling Efficiency
- All Fiber Construction
- Wide Bandwidth
- High Power Handling

Product Applications

- High Power All-Fiber Lasers
- High Power All-Fiber Amplifiers
- Medical
- Defense

Specifications			
Parameter		Unit	
Port Configuration			2x1 or 3x1 or 4x1 5x1 or 6x1 or 7x1
Pump Input Wavelength Range		nm	800-1000
Input fiber type 1	Core / Cladding Diameter	um	105 / 125
	Numerical Aperture		0.15
Input fiber type 2	Core / Cladding Diameter	um	105 / 125
	Numerical Aperture		0.22
Input fiber type 3	Core / Cladding Diameter	um	200 / 220
	Numerical Aperture		0.22
Output fiber type 1	Core / Cladding Diameter	um	125
	Numerical Aperture		0.46
Output fiber type 2	Core / Cladding Diameter	um	200
	Numerical Aperture		0.46
Output fiber type 3	Core / Cladding Diameter	um	20 / 400
	Numerical Aperture		0.06 / 0.46
Transfer Efficiency	Min.	%	95 90
Return Loss	Min.	dB	40
Operating Power Per Input Channel	Max.	W	5
Operating Temperature		°C	-5 to +75
Storage Temperature		°C	-50 to +85
Package Type		mm	S6: \varnothing 3x54 For bare fiber S11: \varnothing 4x60 For bare fiber

Ordering Information

M	P	C	M	M	O			O					
			Structure			Input Fiber Type		Output Fiber Type	Fiber Length	Connector			
			20= 2x1	30= 3x1	40= 4x1	50= 5x1	60= 6x1	70= 7x1	1	2	3	0=0.5m 1=0.75m 2=1.0m	0=None

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

1310/1550nm High Temperature Single Mode Fiber WDM



Product Features

- High Sustained Temperature
- Low PDL
- High Isolation
- High Return Loss
- Stable and Reliable

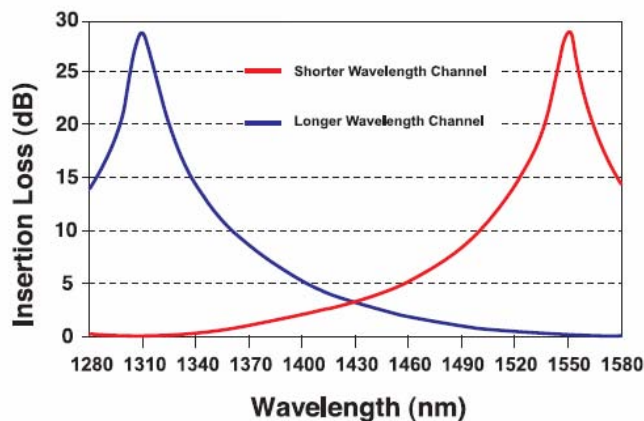
Product Applications

- 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
Return Loss*	Min.	dB	50	
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

* Test at central wavelength only.

Typical Spectrum

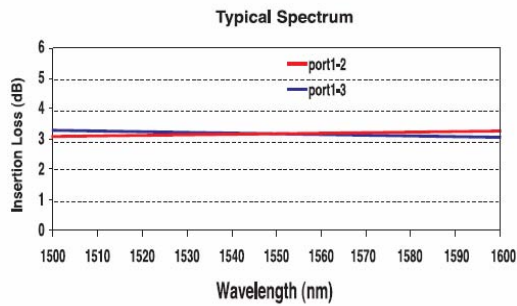


Ordering Information

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 250um bare fiber pigtail	Fiber Type 9=High Temperature SMF	Fiber Length 0=0.5m 1=0.75m 2=1.0m

Note: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min. dB	50	
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

* >60dB on request for 1x2 structure

Test at central wavelength only.

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	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 bare fiber pigtail	Fiber Type	9=High Temperature	SMF	Fiber Length	0=0.5m	1=0.75m	2=1.0m

Note: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min.	dB	50	
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	

* >60dB on request for 1x2 structure.

Test at central wavelength only.

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	Structure	Splitting Ratio	Grade	Package	Fiber Type	Fiber Length
					4=1550nm 7=1310nm	1=1x2 2=2x2	05=99.5:0.5 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 50=50:50	P=Premium A=A grade	5=S6 with bare fiber pigtail	9=High Temperature SMF	0=0.5m 1=0.75m 2=1.0m

Note: All specifications are before connectors and are subject to change without notice.

1x2(2x2) Plastic Fiber Splitter (Mixer)



Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LANs
- Optical Sensors
- Optical Entertainment Systems

Specifications			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	Ø6.0x101: 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					P		R				
Package	Fiber Type	Pigtail	Fiber Length	Connector	Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
P=S14	B=BH4001 G=GH4001	R=2.2 mm Cable	0=0.5m 1=0.75m 2=1.0m	0=None 4=SC/SPC 6=ST B=SC/PC	A=850nm B=650nm	1=1x2 2=2x2	80=80:20 70=70:30 50=50:50	P=Premium A=A grade	P=S14	B=BH4001 G=GH4001	R=2.2 mm Cable	0=0.5m 1=0.75m 2=1.0m	0=None 4=SC/SPC 6=ST B=SC/PC

Note: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

1x3 (3x3) Plastic Fiber Splitters (Mixers)



Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LAN
- Optical Entertainment Systems
- Fiber Sensors

Specifications			Splitting Ratio: 33:33:33*	
Parameter		Unit	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	Ø6.0x101 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			O	O		P		R		
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
A=850nm B=650nm	3=1x3 A=3x3	00=even	P=Premium A=A grade	P=S14	B=BH 4001 G=GH 4001	R=2.2 mm Cable	0=0.5m 1=0.75m 2=1.0m	0=None 4=SC/SPC 6=ST B=SC/PC				

Note: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

1x4 (4x4) Plastic Fiber Splitters (Mixers)



Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LAN
- Optical Entertainment Systems
- Fiber Sensors

Specifications			Splitting Ratio: 25:25:25:25	
Parameter	Unit		1x4 or 4x4	
Grade			P	A
Central Wavelength	nm		650 , 850	
Splitting Ratio Tolerance	Max.	%	±6.0	±9.0
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	S15	Ø7.0x101 for 2.2mm cable	

* Test at central wavelength only.

Ordering Information

P	F	S			0	0		Q		R		
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
A=850nm B=650nm	4=1x4 B=4x4	00=even	P=Premium A=A grade	Q=S15	B=BH 4001 G=GH 4001	R=2.2 mm Cable	0=0.5m 1=0.75m 2=1.0m	0=None 4=SC/SPC 6=ST B=SC/PC				

Note: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

1x8 (8x8) Plastic Fiber Splitter (Mixer)



Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LANs
- Optical Entertainment Systems
- Fiber Sensors

Specifications			Reflected Splitting Ratio: Even	
Parameter		Unit	1x8 (8x8)	
Grade			P	A
Central Wavelength		nm	650 , 850	
Splitting Ratio Tolerance	Max.	%	±3.5	±4.5
Excess Loss	Max.	dB	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	Ø9.0x125 for 2.2mm cable

* Test at central wavelength only.

Ordering Information

P	F	S			0	0		R		R		
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector	
			A=850nm B=650nm	8=1x8 G=8x8	00=even	P=Premium A=A grade	R=S16	B=BH 4001 G=GH 4001	R=2.2 mm Cable	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 4=SC/SPC 6=ST B=SC/PC	

Note: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

1x16 (16x16) Plastic Fiber Splitter (Mixer)



Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LANs
- Optical Entertainment Systems
- Fiber Sensors

Specifications			Reflected Splitting Ratio: Even	
Parameter		Unit	1x16 (16x16)	
Grade			P	A
Central Wavelength		nm	650 , 850	
Splitting Ratio Tolerance	Max.	%	±2.0	±2.5
Excess Loss	Max.	dB	5	6
Uniformity	Max.	dB	2.5	3
Return Loss*	Min.	dB	N/A	
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	S17	Ø11.5x125 for 2.2mm cable

* Test at central wavelength only.

Ordering Information

P	F	S				T		R			
			Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector
			A=850nm B=650nm	H=1x16 I=16x16	00=even	P=Premium A=A grade	T=S17	B=BH 4001 G=GH 4001	R=2.2 mm Cable	0=0.5m 1=0.75m 2=1.0m	0=None 4=SC/SPC 6=ST B=SC/PC

Note: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

4-Port Plastic Fiber Reflectors



Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LANs
- Optical Entertainment Systems
- Fiber Sensors

Specifications			Reflected Splitting Ratio: 25:25:25:25	
Parameter	Unit		4x4	
Grade			P	A
Central Wavelength	nm		650 , 850	
Reflected Splitting Ratio Tolerance	Max.	%	±6.0	±8.0
Excess Loss	Max.	dB	3	4
Uniformity	Max.	dB	2.0	2.5
Return Loss*	Min.	dB	N/A	
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		S15	Ø7.0x101 for 2.2mm cable

* Test at central wavelength only.

Ordering Information

P	F	R			0	0		Q		R		
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail	Fiber Length	Connector				
A=850nm B=650nm	B=4x4	00=even	P=Premium A=A grade	Q=S15	B=BH 4001 G=GH 4001	R=2.2 mm Cable	0=0.5m 1=0.75m 2=1.0m	0=None 4=SC/SPC 6=ST B=SC/PC				

Note: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

8-Port Plastic Fiber Reflector



Product Features

- Low Insertion Loss
- Good Uniformity
- High Reliability
- Compact Size

Product Applications

- Data Communication Systems
- LANs
- Optical Entertainment Systems
- Fiber Sensors

Specifications			Reflected Splitting Ratio: Even	
Parameter		Unit	8x8	
Grade			P	A
Central Wavelength		nm	650 , 850	
Reflected Splitting Ratio Tolerance	Max.	%	±3.5	±4.5
Excess Loss	Max.	dB	5.0	6.0
Uniformity	Max.	dB	2	3
Return Loss*	Min.	dB	N/A	
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	Ø9.0x125 for 2.2mm cable

* Test at central wavelength only.

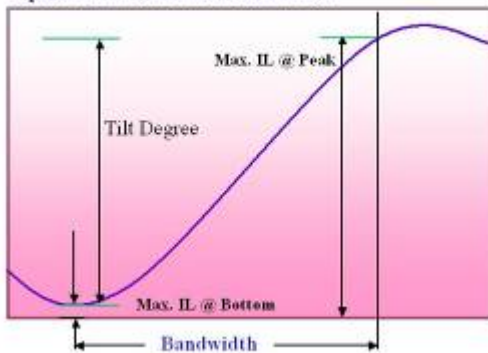
Ordering Information

P	F	R			0	0		R		R		
Wavelength	Structure	Splitting Ratio	Grade	Package	Fiber Type	Pigtail Cable	Fiber Length	Connector				
A=850nm B=650nm	8=1x8 G=8x8	00=even	P=Premium A=A grade	R=S16	B=BH 4001 G=GH 4001	R=2.2 mm Cable	0=0.5m 1=0.75m 2=1.0m	0=None 1=FC/PC 4=SC/SPC 6=ST B=SC/PC				

Note: All specifications are before connectors and are subject to change without notice.
Measured under the stable mode condition with LED source.

Fused Single Mode Fiber Tilt Filter

Optical Performance Definition



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	
Return Loss*	Min.	dB	50	
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

* Test at central wavelength only.

Performance Table

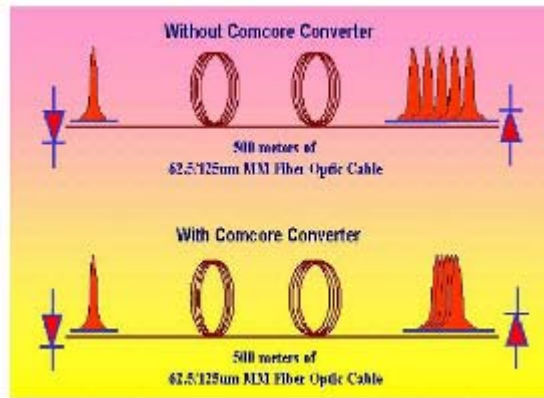
Tilt Degree (dB)	Maximum Insertion Loss (dB)					
	Premium			A grade		
	Max IL (dB) at Bottom	Max IL (dB) at Peak	Tolerance (dB)	Max IL (dB) at Bottom	Max IL (dB) at Peak	Tolerance (dB)
0.5	0.1	0.6	+/-0.1	0.15	0.7	+/-0.2
1.0	0.2	1.15	+/-0.2	0.25	1.3	+/-0.3
2.0	0.3	2.3	+/-0.25	0.4	2.4	+/-0.5
3.0	0.5	3.4	+/-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	Bandwidth	Tilt Degree	Tilt Direction	Grade	Package	Fiber Type	Fiber Length	Connector		
2=1590nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm	1= ± 15nm 2= ± 20nm 3= ± 30nm 4= ± 40nm	05=0.5dB 10=1.0dB 20=2.0dB 30=3.0dB 40=4.0dB 50=5.0dB	P=Positive N=Negative	P=Premium A=A grade	6=S7 with 250 μm Bare fiber	1=SMF-28e	0=0.5m 1=1.0m 2=1.5m	0=None		

Note: All specifications are before connectors and are subject to change without notice.

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
Return Loss*	Min. dB	35	30
Operating power	Max. W	5	

* Test at central wavelength only.

Ordering Information

S	M	M	M	O	O							
Pigtail	Package	Fiber Length	Input Fiber Type	Output Fiber Type	Input Connector	Output Connector						
S=250um bare fiber M=0.9mm loose tube L=3mm cable	A=S11 D=M1	0=0.5m 1=1.0m 2=1.5m 3=2.0m	1=SMF-28e	2=50/125um 3=62.5/125um	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	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: All specifications are before connectors and are subject to change without notice.

Appendix: Package Size

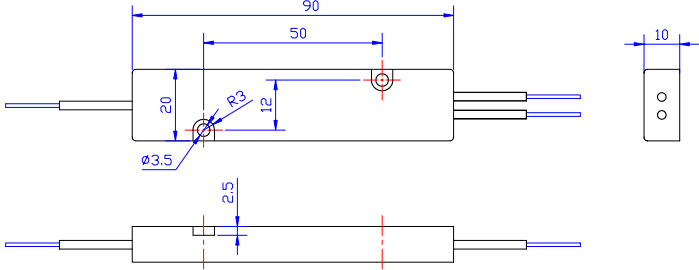
No.	Code	Dimensional Drawing	
0	S1		
1	S2		
2	S3		
3	S4		
4	S5		
5	S6		
6	S7		
7	S8		
8	S9		
9	S10		
A	S11		
B	S12		
C	S13		

Appendix: Package Size

No. Code Dimensional Drawing

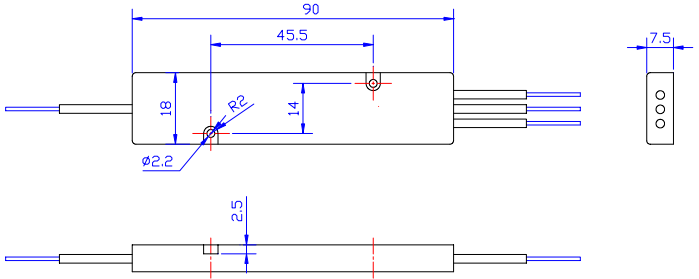
D

**M1
ABS**



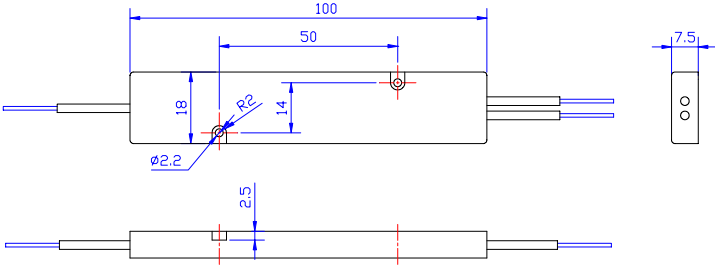
E

**M2
Alloy Aluminum**



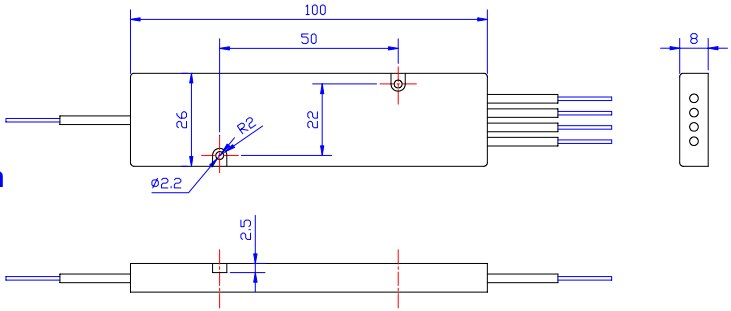
F

**M3
Alloy Aluminum**



G

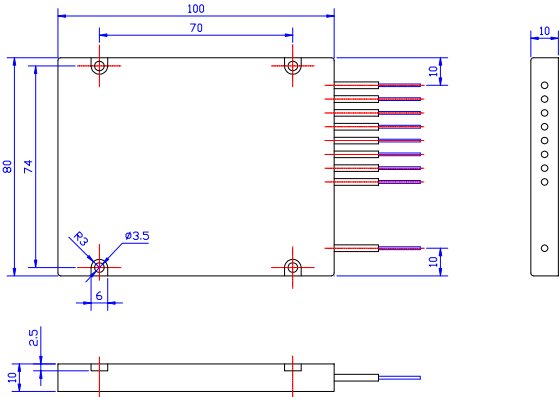
**M4
Alloy Aluminum**



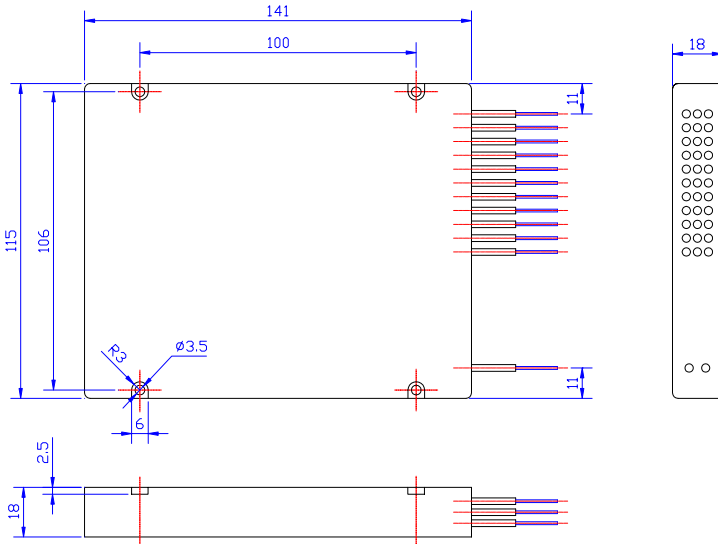
Appendix: Package Size

No. Code Dimensional Drawing

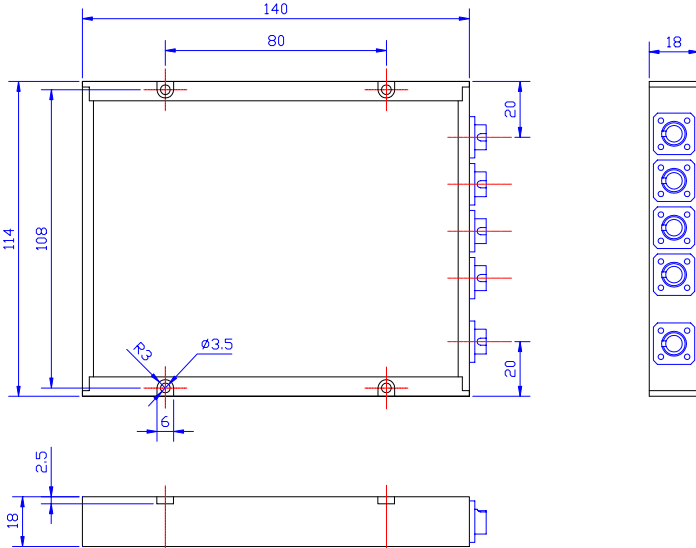
**H M5
ABS**



**I M6
ABS**



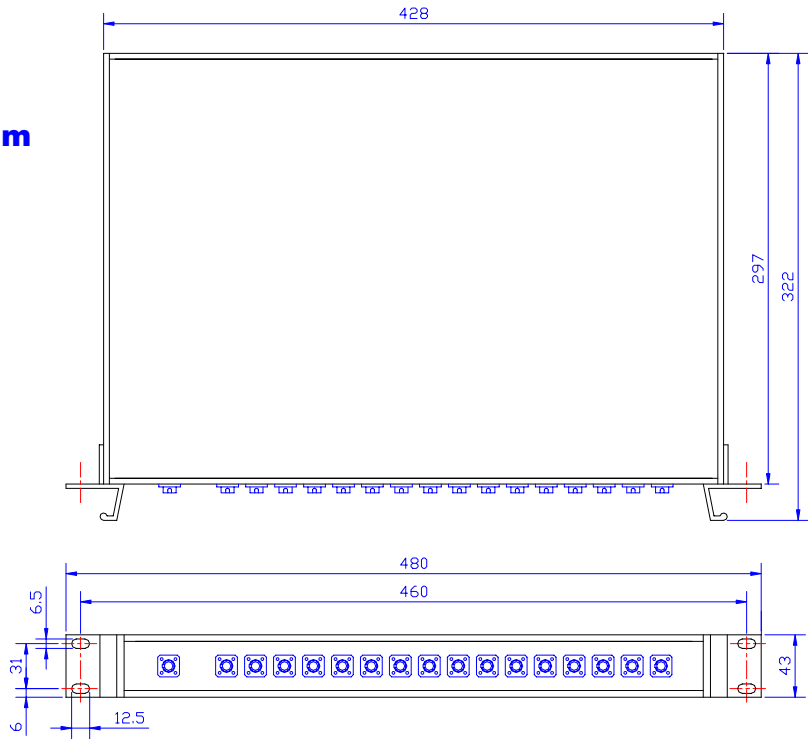
**J M7
Alloy Aluminum**



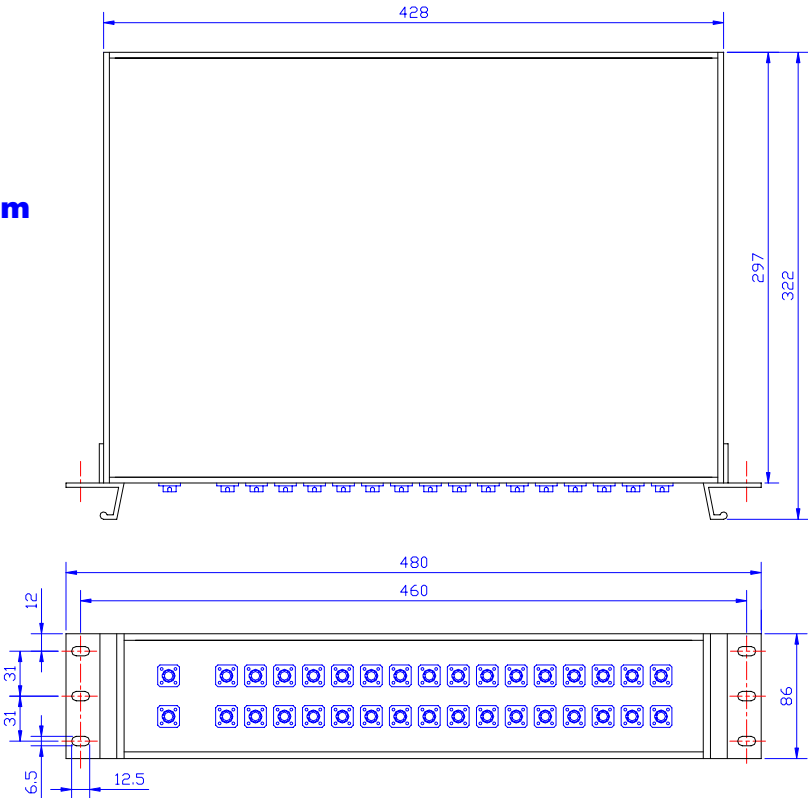
Appendix:Package Size

No. Code Dimensional Drawing

K M8 Alloy Aluminum



L M9 Alloy Aluminum

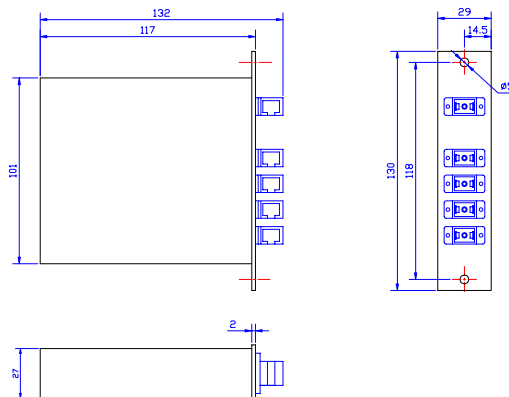


Appendix:Package Size

No. Code Dimensional Drawing

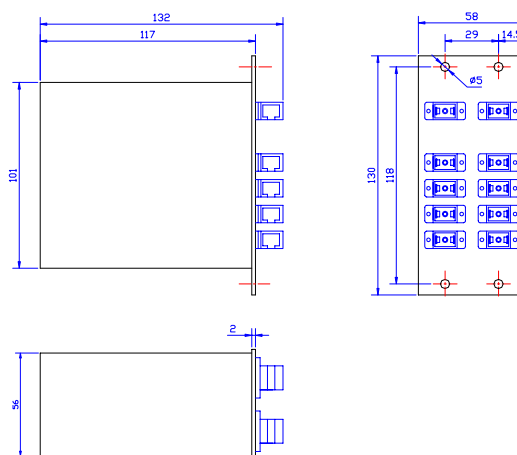
M

**LGX M10
Alloy Aluminum**



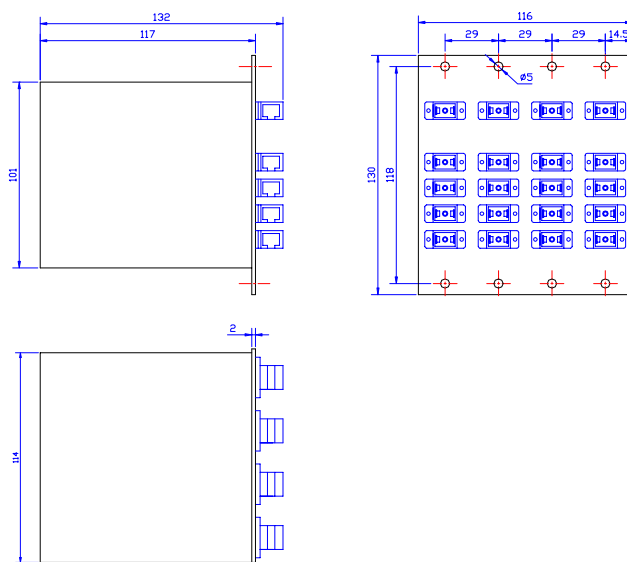
N

**LGX M11
Alloy Aluminum**



O

**LGX M12
Alloy Aluminum**



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