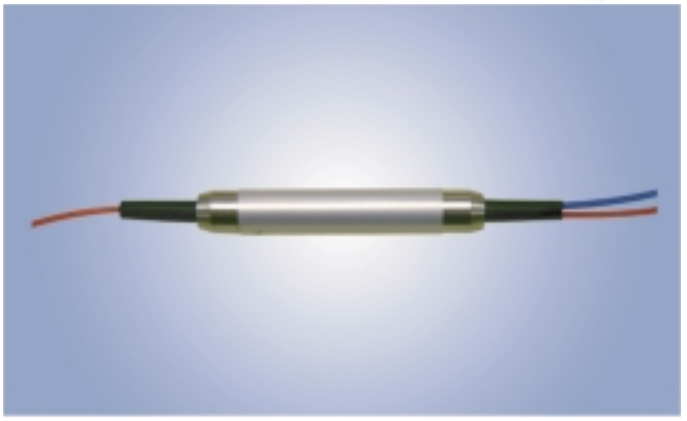
Opto-Link
Corporation Ltd

Polarization Beam Combiner / Splitter

The polarization beam combiner /splitter is a compact lightwave component that combines two orthogonal polarization signals into the output fiber. This device has typical configuration uses two PM fibers for the input and the SM fiber for the output. It can also be used as a beam splitter.



Applications

- Test Equipment
- Raman Amplifier
- Eribium-Doped Fiber Amplifier
- Sensor System

Features

- Low Insertion Loss
- High Return Loss
- High Extinction Ratio
- Environmentally Stable

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SPECIFICATIONS

Polarization Beam Combiner / Splitter at 1310nm,1480nm or 1550nm

Parameter	Values		Units
Center Wavelength	1310, 1480 or 1550	1310/1550	nm
Operating Wavelength Range	+/-40		nm
Insertion Loss	0.4 (Typ), 0.6 (Max)	0.8 (Typ), 1.0 (Max)	dB
Min. Extinction Ratio (Splitter Only)	22		dB
Min. Return Loss	50		dB
Min. Directivity	50		dB
Max. Optical Power	500		mW
Fiber Type	PM Panda Fiber on Port 1 and 2, SMF-28 or PM Panda Fiber on Port 3		
Max. Tensile Load	5		N
Operating Temperature	-5 to +70		°C
Storage Temperature	-40 to +85		°C

*Above specifications are for device without connectors.
*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

Polarization Beam Combiner / Splitter at 1064nm

Parameter	Values	Units
Center Wavelength	1064	nm
Operating Wavelength Range	+/-20	nm
Insertion Loss	0.6 (Typ), 0.8 (Max)	dB
Min. Extinction Ratio (Splitter Only)	22	dB
Min. Return Loss	50	dB
Min. Directivity	50	dB
Max. Optical Power	500	mW
Fiber Type	PM 980 Panda Fiber on Port 1 and 2, HI 1060 or PM Panda Fiber on Port 3	
Max. Tensile Load	5	N
Operating Temperature	-5 to +70	°C
Storage Temperature	-40 to +85	°C

*Above specifications are for device without connectors.
*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

ORDERING CODES

OLCS – [ ] – [ ] – [ ] – [ ] – [ ] – [ ]

Port	Code
1x2	12

Wavelength	Code
1064 nm	106
1310 nm	131
1550 nm	155
1310 & 1550nm	135
Others	XX

Fiber Types	Code
250 µm Panda fiber	25
400 µm Panda fiber	40
900 µm loose tube	90
Others	XX

Fiber Type on Port 3	Code
SMF -28	SM28
HI 1060	HI1060
Slow axis align 45degree to port 1	S145
Slow axis align to port 1	S1
Others	XX

Fiber Length	Code
0.75m	75
Others	XX

Connector Type	Code
No Connector	NC
FC/PC	FP
SC/PC	SP
FC/APC	FA
SC/APC	SA
LC/PC	LP
MU/PC	MP
Others	XX

■ Opto-Link Corporation Ltd. reserves the right to make changes to the products described herein without notice.

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