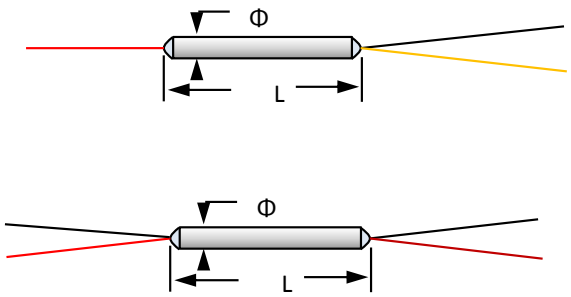
1×2, 2×2 Fused Polarization Maintaining Coupler 980nm

The 980nm 1×2, 2×2 Fused Polarization Maintaining (PM) Coupler is built by using fused biconical taper (FBT) technology. It can be used to split the input signal at various ratios while preserving the polarization with high extinction ratio. High power handling up to 2W as normal and up to 5W or higher is available upon request.



Features

Low Excess Loss
High Polarization Extinction Ratio (PER)
high Power Handling
Compliant to Telcordia GR-1221-CORE

Applications

Fiber Amplifier
Fiber Sensor
Power Monitoring
Fiber Laser
Lab & Research

Performance Specification

Parameter	Value	Unit
Configuration	1X2, 2X2	
Center Wavelength	980 or customized	nm
Bandwidth	±15	nm
Typ. Excess Loss	0.4	dB
Max. Excess Loss	0.6	dB
for CR＞10% Port	20	dB
Min. PER for 10%≥CR＞5% Port	18	dB
for CR≤5% Port	16	dB
Max. Coupling Ratio Tolerance	99/1±0.4%, 90/10±2.5%, 80/20±2.9%, 70/30±3.5%	
Min. Directivity	55	dB
Min. Return Loss	50	dB
Max. Optical Power (Continuous Wave	2 (higher is available upon request)	W
Max. Tensile Load	5	N
Fiber Type	PM Panda Fiber on Input & Output Port	
Operating Temperature	-40 to +80	℃
Storage Temperature	-50 to +85	℃
Package Dimension	Φ3.0×L35 for bare fiber, and Φ3.0×L54 for 900um loose tube	mm

Note

** Test at center wavelength without connector. For devices with connectors, EL will be 0.2dB higher, and PER will be 2dB lower.*
** Available for fast axis operating or slow axis operating. If you need both axis operating please contact us.*
** The PM fiber and the connector key are aligned to the slow axis.*

Ordering Information

FPMC-AAA-BB-CC-DD-E-FF-GG-H

AAA	BB	CC	DD	E	FF	GG	H
Wavelength	Port	Coupling Ratio	Fiber Type on Tap Port	Fiber Jacket	Fiber Length	Connector	Working Axis
915 - 915nm 980 - 980nm SSS - Specify	12 - 1X2 22 - 2X2	01 - 01/99 02 - 02/98 04 - 04/96 05 - 05/95 10 - 10/90 20 - 20/80 30 - 30/70 50 - 50/50 SS - Specify	PM - PM Panda Fiber H6 - HI 1060 Fiber SS - Specify	B - 250um Bare Fiber L - 900um Loose Tube C - 3.0mm Cable	05 - 0.5m 08 - 0.8m 10 - 1.0m 15 - 1.5m SS - Specify	NE - None FA - FC/APC FP - FC/PC SA - SC/APC SP - SC/PC LA- LC/APC LP - LC/PC SS - Specify	F - Fast Axis Operating S - Slow Axis Operating