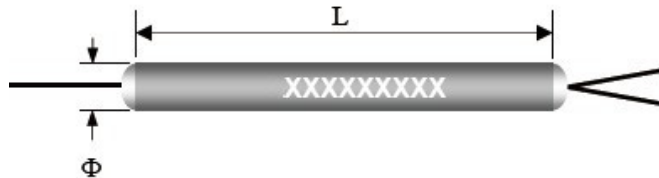




Polarization Maintaining Fused WDM

DK Photonics uses unique fusing technique and polarization maintaining fiber to build the polarization maintaining fused WDM. The Polarization Maintaining Fused WD (Wavelength Division Multiplexers) combine or separate light at different wavelengths. They offer very low insertion loss, low polarization dependence, high isolation, and excellent environmental stability. These components have been extensively used in EDFA, CATV, WDM networks and fiber optics instrumentation.



Features

- ◆ Low Insertion Loss
- ◆ High Extinction Ratio
- ◆ High Isolation
- ◆ High Stability and Reliability

Applications

- ◆ Fiber Optic Instruments
- ◆ Fiber Laser
- ◆ Fiber Sensors
- ◆ Amplifier
- ◆ Research

Performance Specifications

Parameter		Specification		
Operating Wavelength (nm)		980/1550	1064/1550	980/1064
Operating bandwidth (nm)		±10/15	±10/15	±5
Max. Insertion Loss (dB)	Pump Port	< 0.50	< 0.50	< 0.50
	Signal Port	< 0.70	< 0.70	< 0.70
Isolation (dB)		> 18	> 20	> 13
Extinction Ratio(dB)		> 18	> 18	> 18
PDL (dB)		< 0.10	< 0.10	< 0.15
Directivity (dB)		> 55		
Operating Temperature (°C)		-5 ~ +50		
Storage Temperature (°C)		-40 ~ +85		
Fiber Type		PM 980		
Fiber Pigtail Length (m)		1m or custom length		
Port Configuration		1x2 or 2x2		
Package Dimension (mm)		Package A, B, C, D		

*The specifications are w/o connector.

* For devices with connectors, 0.3dB higher for IL, 5dB lower for RL and 2dB lower for ER.

* The PM fiber and the connector key are aligned to the slow axis and fast axis is blocked.

Package information

Configuration	1x2 or 2x2		
Fiber Length	0.8m, Others on Request		
Fiber Diameter	250µm bare fiber	900µm loose tube	900µm/2mm/3mm loose tube
Dimensions (Φ×L)	Φ3.0mm×54mm	Φ3.0mm×60mm	90mm×20mm×9.5mm



Order information

PMWDM-①-②②-③-④-⑤⑤-⑥⑥-⑦⑦

①①①	②②	③	④	⑤⑤	⑥⑥	⑦⑦
Port	Operating Wavelength	Package	Fiber Type	Fiber Diameter	Fiber Length	Connector
102:1x2 202:2x2	95:980/1550nm 65:1064/1550nm 96:980/1064nm XX:Others	1:A 2:B 3:C 4:D	1: Panda fiber X:Others	25:250um 90:900um XX: Others	08:0.8m 10:1.0m XX:Others	00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC XX: Others