

1x3 Polarization Maintaining Coupler

Optowaves uses unique fusing technique and polarization maintaining fiber to build the 1x3 polarization maintaining fused coupler (1x3PMC). The coupling ratio could be selected according to customer's request. It features low excess loss, small size and high polarization extinction ratio. PMC is widely used for optical sensors and optical gyro, optical amplifier.



Features

- Wide Bandwidth
- Low Excess Loss
- High polarization extinction ratio
- High Stability and Excellent Reliability

Applications

- Optical Sensors
- Optical Gyro
- Optical Amplifier

Specifications

Parameters	Specifications			Unit	
	Min	Typ.	Max		
Coupling Ratio	33/33/33				
Fiber Type	PM panda fiber				
Pigtail Type	250μm bare fiber				
Package Size	Φ3.0 x 45			mm	
Operating Wavelength	1310 or 1550			nm	
Bandwidth	±15			nm	
Power Handling	500			mW	
Storage Temperature	-40 ~ 85			°C	
Operating Temperature	-5 ~ 75				
IL@central wavelength	P grade		5.5	6.0	dB
	A grade		5.8	6.2	
EL	P grade		0.5	0.8	
	A grade		0.7	1.0	
ER	P grade	18	20		
	A grade	16	18		
RL	50				

* The specifications are without connectors. For devices with connectors, 0.3dB higher for IL, and 2dB lower for ER

* Slow axis working, If both axis needed, IL should be 0.2dB higher.

1x3 Polarization Maintaining Coupler

Ordering Information:

PMC - X - XXX - XXX - XX/XX - X - X - XX/XXX - XX*XX
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① **Grade:** P=Premium, A=Grade A, X=on customer request
- ② **Port Number:** 1x3
- ③ **Operating Wavelength:** 1310nm, 1550nm etc.
- ④ **Coupling Ratio:** 33/33/33, 10/10/80 etc.
- ⑤ **Pigtail Type:** 0=250μm, 4=others
- ⑥ **Fiber Type:** P=PM panda fiber
- ⑦ **Connector:** FC/UPC, FC/APC etc.
- ⑧ **Package:** 3.0x45 etc.