

1X3 Polarization Maintaining Coupler

Description

LightComm 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.

Mechanical Dimension



Specifications

| No | Parameters | | Specification | | | Unit |
|----|-----------------------------|---------|------------------|-----|------|------|
| | | | Min. | Typ | Max. | |
| 1 | Coupling ratio | | 33/33/33 | | | |
| 2 | Fiber type | | PM panda fiber | | | |
| 3 | Pigtail type | | 250um bare fiber | | | |
| 4 | Package size | | Φ3.0*45 | | | mm |
| 5 | Operating Wavelength | | 1310 or 1550 | | | nm |
| 6 | Bandwidth | | +/-15 | | | nm |
| 7 | Power handling | | 500 | | | mW |
| 8 | Storage Temperature Range | | -40 ~ 85 | | | ° C |
| 9 | Operating Temperature Range | | -5 ~ 75 | | | ° C |
| 10 | IL @ central wavelength | P grade | --- | 5.5 | 6.0 | dB |
| | | A grade | | 5.8 | 6.2 | |
| 11 | EL | P grade | | 0.5 | 0.8 | dB |
| | | A grade | | 0.7 | 1.0 | |
| 12 | ER | P grade | 18 | 20 | | dB |
| | | A grade | 16 | 18 | | |
| 13 | RL | | 50 | | | dB |

* 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.

Ordering Information

PMC-X-XXX-XXX-XX/XX-X-X-XX/XXX-XX*XX

