

Polarization-Insensitive Fused PM Fiber Coupler (PIPMC)

1. Description

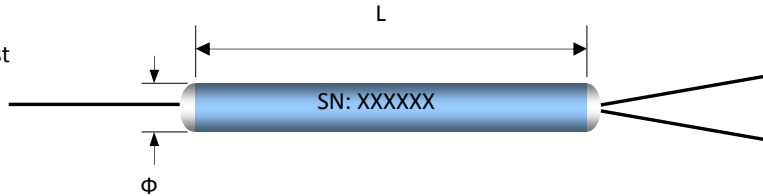
InteOptix use unique fused-pulling technology and setup to process skillfully on the PIPMC, the PIPMC all ports are polarization maintaining fiber, can maintain a certain polar state with designed coupling ratio, it can work both for fast and slow axis.

2. Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling up to 2W
- Telcordia GR-1221 Compliant Test

3. Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope



4. Specifications

Parameters	Unit	Premium	A grade	Premium	A grade
Port Configuration	nm	1x2 or 2x2			
Central Wavelength	nm	633, 780, 830, 980, 1060		1310, 1480, 1550	
Bandwidth	dB	±20			
Excess Loss(Typical)	dB	0.6	0.8	0.4	0.6
Excess Loss	dB	≤0.8	≤1	≤0.6	≤0.8
Polarization Dependent Loss	dB	≤0.1	≤0.2	≤0.1	≤0.2
Polarization Extinction Ratio	dB	≥18	≥15	≥20	≥17
Return Loss*	dB	50	45	50	45
Directivity	dB	55			
Operating Power(CW)	W	2			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-50 to +85			
Package Dimension	mm	Φ3x54			

Remark

- * Above PER is for more than 10%(CR) port, it's 2dB lower for ≤10%(CR) port, and 4dB lower for ≤5%(CR) port.
- * All specifications are without connectors. PER is 2dB lower and EL is 0.2dB higher per connector.
- * Test at central wavelength only.

5. Splitting Ratio & Its Tolerance

Splitting Ratio	Maximum Splitting Ratio Tolerance(%)	
	Premium	A grade
99/1	±0.5	±0.6
98/2	±0.8	±1.0
95/5	±1.5	±1.7
90/10	±2.2	±2.4
80/20	±2.5	±3.0
70/30	±3.0	±3.7
60/40	±4.0	±5.0
50/50	±5.0	±7.0

5. Ordering Information

PIPMC — XXX — — — — — — — —

Configuration	Wavelength	Coupling ration	Pigtail type	Connector	Package size	Fiber length
1x2 2x2	1310 1550 etc.	1/99 2/98 50/50 etc.	0=Bare fiber 1=0.9mm loose tube	FC/PC, FC/APC SC/PC SC/APC etc.	3x54 3x60 etc...	0.5m 0.8m 1.0m etc.

Example: PIPMC-1x2-1550-50/50-0-FC/PCx3-3x54-0.8m