AC Photonics

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PM Fiber Circulator (1310, 1550nm)

ACP's polarization maintaining optical circulator utilizes proprietary designs and metal bonding micro optics packaging. It provides low insertion loss, broad band high isolation, high extinction ratio, excellent temperature stability, and epoxy free optical paths. It can be used for wavelength add/drop, dispersion compensation, and EDFA applications.

Key Features

- Low Insertion Loss
- Wide Band, High Isolation
- High Extinction Ratio
- Compact In-line Package
- High Stability and Reliability

Applications

- Optical Amplifier
- Metro Area Network
- Wavelength Add/Drop
- Dispersion Compensation
- Bidirectional Communication

Performance Specifications

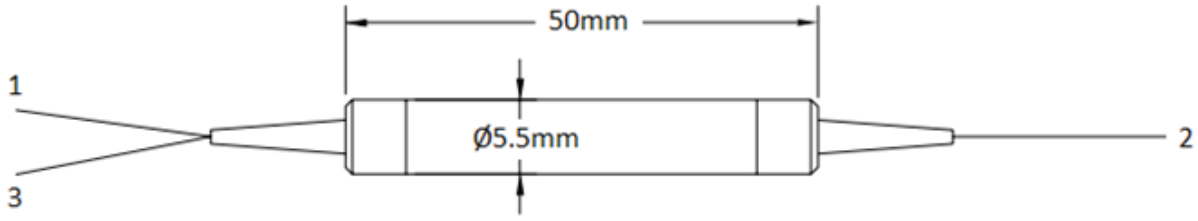
Parameter		Specifications	
		Grade P	Grade A
Configuration		Port 1 to 2, Port 2 to 3	
Operating Wavelength		1310±20nm, 1550±20nm	
Insertion Loss	Typical	≤ 0.6dB	≤ 0.8dB
	Maximum	≤ 0.8dB	≤ 1.0dB
Channel Isolation	Peak	40dB	
	Minimum	25dB	
Extinction Ratio		≥ 20dB	
Directivity		≥ 50dB	
Return Loss		≥ 55dB	
Optical Power		≤ 500mW	
Operating Temperature		0 to +70°C	
Storage Temperature		-40 to +85°C	
Fiber Type		PM Panda	

NOTE: 1. Connector keys are aligned to the slow axis.

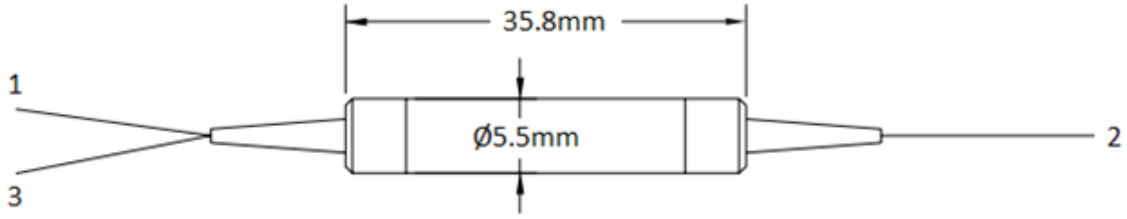
2. ER value applies to fiber ≤ 0.75m. Increased fiber length will decrease ER.

3. For each connector, IL will be 0.3dB higher, RL 5dB lower, and ER 2dB lower.

Mechanical Dimensions



Both axis operational



Single axis operational

Ordering Information

PMOC	☐	☐☐	☐	☐	☐	☐☐	☐
	Port	**Wavelength**	**Grade**	**Pigtail Style**	**Fiber Length**	**In/Out Connector**	**Working Axis**
	3 = 3 Port	13 = 1310nm 15 = 1550nm	P = Grade P A = Grade A	1 = Bare Fiber 2 = 900um Jacket	1 = 0.75m 2 = 1.0m	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC	S = Slow axis working B = Both axis working F = Fast axis working