Polarization Maintaining Optical Circulators

PMOC Series

Product Description

Oplink's Polarization Maintaining Optical Circulator (PMOC) is designed for use in network and amplifier application where polarization maintaining characteristics are needed. The PMOC features very low insertion loss, and low dispersion in a compact package.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.

Performance Specification

PMOC Series		Min	Typical	Max	Unit
Type			3 or 4 Port		
Operating Wavelength Range (λ_{Op})	O Band		1290 ~ 1330		nm
	C Band		1525 ~ 1570		
	L Band		1570 ~ 1610		
Insertion Loss (@ λ_{Op}, T_{Op}, SOP)				0.8	dB
Wavelength Dependent Loss				0.15	dB
Channel Isolation (@ λ_{Op}, T_{Op}, SOP)		35	45		dB
Extinction Ratio		17	20		dB
Return Loss		50			dB
Directivity		50			dB
Polarization Alignment			Slow Axis		
Optical Power Handling				500	mW
Operating Temperature Range (Top)			-5 to +70		°C
Storage Temperature			-40 to +85		°C
Fiber Type			Fujikura Panda, 400μm UV Buffer		
Physical Dimension			(Φ) 5.5 x (L) 38.0		mm

Note:
[1] The maximum IL is under all states of polarization and within the full operating temperature and wavelength ranges specified.
[2] All the parameters are excluding connectors.

Features

- Polarization Maintaining
- Low Insertion Loss
- Compact Size
- Epoxy-free Optical Path

Applications

- Optical Amplification
- Network Application
- System Testing

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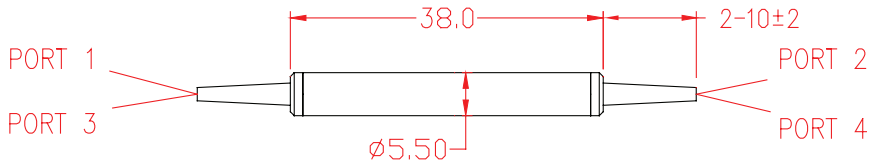
Mechanical Drawing / Package Dimension (Unit : mm)



NOTES: (UNLESS OTHERWISE SPECIFIED)
1. ALL DIMENSIONS ARE IN mm.
2. TOL: .X=±0.5, .XX=±0.2.

Note : 3-port dimension is same as 4-port

Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

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Center Channel Wavelength
O band = 1310
C band = 1550
L band = 1600

Port Configuration
3 ports = 3
4 ports = 4

Package Type
P1 = 1

Fiber Type
Fujikura Panda, 400µm
UV Buffer = 1

Fiber Length*
0.5 meter = H
1.0 meter = 1
1.5 meters = 5
2.0 meters = 2

Connector Type
None = 1
FC/PC = 2
FC/SPC = 3
FC/APC = 4
SC/PC = 5
SC/SPC = 6
SC/APC = 7
ST = 8
LC = 9
MU = A

** The tolerance of fiber length is +/-0.1m.*
** 1 meter is standard. * The lead-time for special fiber length will be longer.*

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