

MINIATURE 3-PORT POLARIZATION INSENSITIVE OPTICAL CIRCULATORS

MIOC Series

Features

- ◆ Smallest Package Size
- ◆ Low Insertion Loss
- ◆ Low PDL
- ◆ High Channel Isolation
- ◆ Highly Stable & Reliable
- ◆ Low Dispersion
- ◆ Epoxy-Free Optical Path

Applications

- ◆ Optical Amplification
- ◆ Metropolitan Area Network
- ◆ Dynamic Gain Equalization
- ◆ Dispersion Compensation
- ◆ Laboratory R&D

Oplink Fiber Optic Product Lines

- ◆ Amplifier Components
- ◆ Amplifier Modules
- ◆ DWDMs
- ◆ Switching/Routing/
Monitoring/Conditioning
- ◆ Transmissions
- ◆ RGB Laser Modules

Miniature 3-port Polarization Insensitive Optical Circulators

Oplink's polarization insensitive miniature circulator features excellent optical characteristics over a wide wavelength range while delivering a very small form factor. It possesses low insertion loss, high isolation, and low PDL making it an ideal candidate for EDFA, add/drop, dynamic gain equalization, dispersion compensation and other optical network applications.

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 Specifications

Parameter		Min	Typical	Max	Unit
Operating Wavelength Range (λ_{op})	I310		1290 ~ 1330		nm
	C Band		1525 ~ 1565		nm
	L Band		1570 ~ 1610		nm
	C + L		1525 ~ 1610		nm
Insertion Loss ¹ (1→2, or 2→3 @ λ_{op} , Top, SOP, Exclude Connectors)	I310, C or L		0.5	0.7	dB
	C + L		0.7	0.9	dB
Polarization Dependent Loss (PDL)	I310, C or L			0.1	dB
	C + L			0.2	dB
Polarization Mode Dispersion (PMD)	I310, C or L			0.06	ps
	C + L			0.1	ps
Isolation (2→1, 3→2 @ λ_{op} , Top, SOP)	I310, C or L	38			dB
	C+L Band	32			dB
Directivity (1→3)		50			dB
Return Loss (RL)		50			dB
Chromatic Dispersion (CD)				3	ps/nm
Optical Power Handling				500	mW
Operating Temperature Range (Top)		0		70	°C
Storage Temperature		-40		85	°C
Fiber Type			SMF-28		
Color Code			Port 1: Black; Port 2 & 3: Clear		
Physical Dimension			∅ 5.5 x (L) 38.0		mm

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Mechanical Footprint Dimension (unit: mm)



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.

