

ECO SERIES 3-PORT POLARIZATION INSENSITIVE MINIATURE OPTICAL CIRCULATORS

MIOC3 Eco Series

Product Description

Oplink's polarization insensitive miniature circulator features excellent optical characteristics over a wide wavelength range while delivering a smallest 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 Specification

MIOC3 Eco Series		Min	Typical	Max	Unit
Operating Wavelength Range (λ_{op})	1310	1290 ~ 1330			nm
	C Band	1525 ~ 1565			
	L Band	1570 ~ 1610			
	C+L Band	1525 ~ 1610			
Insertion Loss (1→2 or 2→3 @ λ_{op} , T_{op} , SOP)	1310, C or L	0.5	0.7	dB	
	C+L Band	0.7	0.9		
Polarization Dependent Loss (PDL)	1310, C or L		0.1	dB	
	C+L Band		0.2		
Polarization Mode Dispersion (PMD)	1310, C or L		0.06	ps	
	C+L Band		0.1		
Isolation (2→1 or 3→2 @ λ_{op} , T_{op} & SOP)	1310, C or L	38		dB	
	C+L Band	32			
Directivity (1→3)		50		dB	
Return Loss (RL)		50		dB	
Chromatic Dispersion (CD)			3	ps/nm	
Optical Power Handling			500	mW	
Operating Temperature Rang (T_{op})		0 to +70			°C
Storage Temperature		-40 to +85			°C
Fiber Type		Corning SMF-28			
Color Code		Port 1: black; Port 2 & 3: clear			
Physical Dimension		(Φ) 5.5 x (L) 38.0			mm

Note:

¹⁾ All the parameters exclude connector contribution.

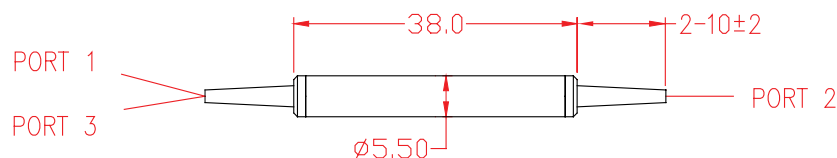
Features

- ◆ Wide Wavelength Selection
- ◆ Smallest Package Size
- ◆ Low Insertion Loss, PDL
- ◆ High Channel Isolation
- ◆ Epoxy-free on Optical Path
- ◆ Telcordia GR1221/1209 Qualified
- ◆ RoHS6/6 Compliant

Applications

- ◆ Dispersion Compensation
- ◆ Wavelength Selective Switch
- ◆ Bi-directional Transmission System
- ◆ Add/Drop Multiplexing
- ◆ Optical Amplification
- ◆ Optical Time Domain Reflectometer (OTDR)
- ◆ Fiber Sensor
- ◆ Test Instruments

Mechanical Drawing / Package Dimensions



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL DIMENSIONS ARE IN mm.

2. TOL: .X=±0.5, .XX=±0.2.

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.

MIOC	G		E	C	O	0	3	1			
	Wavelength 1310 window = 3 C band = 5 L band = 6 C+L band = E			Port Configuration 3 ports = 3			Package Type P1 = 1		Fiber Length 0.5 meter = H 1.0 meter = 1 1.5 meters = 5 2.0 meters = 2		
								Fiber Type 250µm bare fiber = 1 900µm loose tube = 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/UPC = 9 MU = A LC/APC = B	

* The tolerance of fiber length is +/-0.1m.

* 1 meter is standard. The lead time for special fiber length will be longer.