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Eco Series 3-port Polarization Insensitive Miniature Optical Circulators

MIOC3 Eco Series

Product Description

Oplink's polarization insensitive miniature circulator features excellent opti¬cal 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

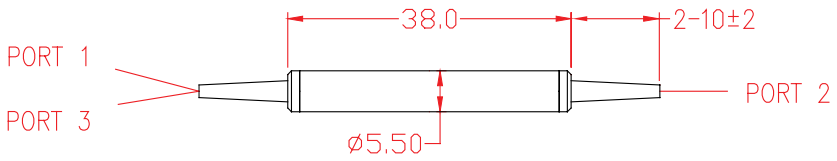
- Wide Wavelength Selection
- Smallest Package Size
- Low Insertion Loss, PDL
- High Channel Isolation
- Epoxy-free on Optical Path
- Telcordia GR1221/1209 Qualified
- RoHS6/6 Compliant

Applications

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

OPLINK
your DESIGN & OMS partner

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 Type
250µm bare fiber = 1
900µm loose tube = 2

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/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.*

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