

High Power Polarization-Insensitive Optical Isolator



Key Features

- High Isolation
- Low Insertion Loss
- High Return Loss
- Low Polarization Sensitivity
- Epoxy Free Optical Path

Applications

- Fiberoptic Amplifiers
- CATV Fiberoptic Links
- Fiberoptic Systems Testing
- Fiberoptic LAN Systems
- Telecommunications

Performance Specifications

Parameter	Specifications			
	Single Stage		Dual Stage	
Grade	P Grade	A Grade	P Grade	A Grade
Operating Wavelength	1310nm, 1480nm or 1550nm			
Peak Isolation (Typ.)	42dB	42dB	58dB	55dB
Isolation* (Min.)	32dB	32dB	44dB	43dB
Insertion Loss** (Typ.)	0.40dB	0.50dB	0.55dB	0.65dB
Insertion Loss*** (Max.)	0.60dB	0.70dB	0.70dB	0.8dB
Return Loss (In/Out)	≥ 60/55dB	≥ 60/55dB	≥ 60/55dB	≥ 60/55dB
PDL	≤ 0.05dB		≤ 0.1dB	
PMD	0.25ps(0.05ps available upon request)			
Bandwidth	± 15nm		± 30nm	
Optical Power	1W, 2W 3W,5W			
Operating Temperature	-5 to +70°C			
Storage Temperature	-40 to +85°C			
Fiber Type	Corning SMF-28			
Fiber Length (Min.)	1 meter each end			
Package Dimensions	Ø 5.5mmxL35mm(L38mm for 900um Jacket)			

Note:

* At 23° C over bandwidth

** Does not include connector, splice and fiber-end fresnel losses.

*** Including PDL, operating wavelength range, -20° C to +70° C.

Ordering Information

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Isolator Type	Operating Wavelength	Grade	Pigtail Style	Fiber Length	Package	In/Out Connector		
HPIS = Single stage HPIU = Dual stage	13 = 1310nm 14 = 1480nm 15 = 1550nm LB = L Band	P = P Grade A = A Grade S = Super	1 = Bare Fiber 2 = 900um Jacket	1 = 1.0m 2 = 1.5m 3 = 2.0m 4 = Custom Length	B = Package B	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC		1 = 1W 2 = 2W 3 = 3W 5 = 5W