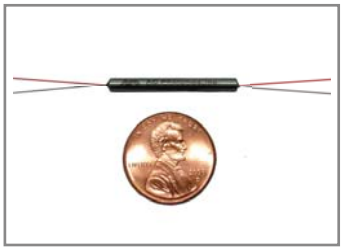
AC Photonics

phone: 408.986.9838
email: sales@acphotonics.com
website: www.acphotonics.com

2x2 Mini Polarization-Insensitive Optical Isolator



Key Features

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

Applications

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

Performance Specifications

Parameter	Specifications	
	Single Stage	Dual Stage
Operating Wavelength	1310nm,1550nm, or 1585nm	
Peak Isolation (Typ.)	≥ 35dB	≥50dB
Isolation* (Min.)	≥28dB	≥41dB
Insertion Loss** (Typ.)	0.45dB	0.60dB
Insertion Loss*** (Max.)	≤0.60dB	≤0.70dB
Return Loss (In/Out)	≥ 60/55dB	≥ 60/55dB
Cross Talk	≥ 55dB	≥ 55dB
PDL	≤ 0.15dB	≤ 0.15dB
PMD	0.1ps(0.05ps available upon request)	0.1ps(0.05ps available upon request)
Bandwidth	± 15nm	± 30nm
Optical Power	500mW	
Operating Temperature	-20 to +70°C	
Storage Temperature	-40 to +85°C	
Fiber Type	Corning SMF-28 or SMF-28e XB	
Pigtail Style	Bare fiber	
Package Dimensions	Ø 3.0mm x L25mm	

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

☐☐☐	☐☐	☐	☐	☐	☐	☐☐
Isolator Type	**Operating Wavelength**	**Grade**	**Pigtail Type**	**Fiber Length**	**Package**	**In/Out Connector**
DIS = Single stage DIU = Dual stage	13 = 1310nm 15 = 1550nm	P = P Grade	1 = SMF-28e 2 = SMF-28e XB	1 = 1.0m 2 = 1.5m 3 = 2.0m 4 = Custom Length	M = Mini	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC