

Single/Dual Stage Series

POLARIZATION INSENSITIVE ISOLATOR

Features

- High Isolation
- Low Insertion Loss
- Ultra-low PDL and PMD
- Low Polarization Sensitivity
- High Return Loss
- Environmental Stability & Reliability
- Optical Path Epoxy Free

Applications

- Fiber Optic Amplifier
- Fiber Laser Equipment/Transmitter
- CATV
- Optical Instrument
- Fiber Optic Network System
- WDM System
- Laboratory R&D



Performance Specifications

Parameters	Single Stage		Dual Stage			Unit
	Premium	Grade A	Super	Premium	Grade A	
Operating Wavelength Range	1310/1480/1550/1600					nm
Minimum Isolation (wavelength ± 20 nm, 23°C, all SOP)**	≥ 30	≥ 25	≥ 46	≥ 46	≥ 45	dB
Minimum Isolation (wavelength ± 20 nm, 0 ~ 70°C, all SOP)**	≥ 22	≥ 18	≥ 35	≥ 35	≥ 32	dB
Insertion Loss (wavelength ± 20 nm, 23°C, all SOP)	≤ 0.3	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.6	dB
Insertion Loss (wavelength ± 20 nm, 0 ~ 70°C, all SOP)	≤ 0.5	≤ 0.6	≤ 0.5	≤ 0.6	≤ 0.8	dB
Polarization Dependent Loss	≤ 0.05	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.15	dB
Polarization Mode Dispersion	≤ 0.25	≤ 0.25	≤ 0.05	≤ 0.05	≤ 0.05	ps
Optical Return Loss	≥ 60	≥ 55	≥ 60	≥ 60	≥ 55	dB
Maximum Optical Power	500					mW
Operating Temperature	0 ~ 70					°C
Storage Temperature	-40 ~ 85					°C
Fiber Type	Corning SMF-28					
Maximum Tensile Load	5					N
Package Design (*patent pending)	Standard - Stainless Steel Tube *Compact - Gold-Plated Steel Tube					
Dimension	Standard - $\varnothing 5.5 \times 30.5$ Compact - $\varnothing 4.3 \times 27.0$					mm

** For 1310nm, minimum Isolation (wavelength ± 20 nm, 23°C, all SOP) for P ≥ 27 dB, A ≥ 23 dB, minimum Isolation (wavelength ± 20 nm, 0~70°C, all SOP) for P ≥ 20 dB, A ≥ 16 dB.

Target parameters are referenced without connectors.

Reliability

Telcordia (GR-1209-CORE), (GR-1221-CORE), and (GR-2882-CORE). Details provided upon request.

Ordering Information

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Type
AS = Standard Single
AD = Standard Dual
BS = Compact Single
BD = Compact Dual

Wavelength
3 = 1310nm
4 = 1480nm
5 = 1550nm
6 = 1600nm

Package
0 = No Package
N = Standard
X = Custom

Grade
S = Super (Dual)
P = Premium
A = Grade A

Fiber Length
10 = 1.0m
13 = 1.3m
15 = 1.5m
20 = 2.0m
mn = m.n meter

Connectors
0 = None
1 = Custom
2 = FC/PC (UPC)
3 = FC/APC
4 = SC/PC (UPC)
5 = SC/APC
6 = ST/PC (UPC)
7 = LC/PC (UPC)
8 = FC/APC (Wide Key)

Fiber Type
A = SMF-28 bare fiber
B = SMF-28 bare fiber w/900 μ m loose tube