

Polarization Insensitive Isolator (PSSI & PDSI Series)

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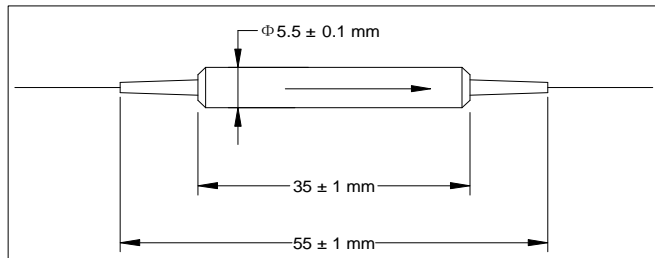
The Polarization Insensitive Isolator is designed and manufactured according to Telcordia standard. The unique manufacturing process and optical path epoxy-free design enhance the device high power handling capability. The device is characterized with high performance, high reliability and low cost. It has been widely used in EDFAs, Raman amplifiers, DWDM systems, fiber lasers, transmitters and other fiber optics communication equipments to suppress back reflection and back scattering.

Specifications

Parameter	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1310, 1480 or 1550			
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	30	29	46	45
Typ. Insertion Loss, λ_c , 23 °C; all polarization states	dB	0.35	0.5	0.4	0.6
Max. Insertion Loss, $\lambda_c \pm 20$ nm, all temperature, all polarization states	dB	0.5	0.7	0.6	0.9
Min. Return Loss (Input/Output)	dB	60/55	60/55	60/55	60/55
Max. Polarization Dependent Loss, 23 °C	dB	0.05	0.1	0.05	0.15
Max. Polarization Mode Dispersion	ps	0.20	0.25	0.05	0.07
Max. Average Optical Power	mW	300			
Max. Peak Power for ns pulse	kW	1			
Max. Tensile Load	N	5			
Fiber Type		SMF-28 fiber			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

*IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

Single Stage: PSSI-①①-②-③-④-⑤-⑥-P

①①: Wavelength

31 - 1310 nm

48 - 1480 nm

55 - 1550 nm

SS - Specify

②: Grade

P - Premium

A - A grade

③: PMD

1 - 0.05 ps max.

2 - Refer to above spec.

Dual Stage: PDSI-①①-②-③-④-⑤-⑥-P

④: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑤: Fiber Type

B - 250 μ m bare fiber

L - 900 μ m loose tube

T - 900 μ m tight buffer

S - Specify

⑥: Fiber Length

1 - 1.0 m

S - Specify