



## Polarization Insensitive Isolator (PSSI & PDSI Series)

Rev 10

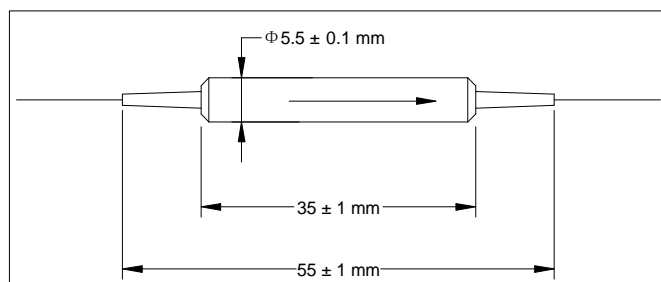
The Polarization Insensitive Isolator is designed and manufactured according to Telcordia standard. The unique manufacturing process and optical path epoxy-free design enhance the device high power handling capability. The device is characterized with high performance, high reliability and low cost. 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 ( $\lambda_c$ )	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, $\lambda_c$ , 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. Optical Power (Continuous Wave)	mW	300			
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

①①: Wavelength	②: Grade
31 - 1310 nm	P - Premium
48 - 1480 nm	A - A grade
55 - 1550 nm	
SS - Specify	③: PMD
	1 - 0.05 ps max.
	2 - Refer to above spec.

**Dual Stage: PDSI-**①①-②-③-④-⑤-⑥

④: Connector Type	⑤: Fiber Type	⑥: Fiber Length
1 - FC/UPC	B - 250 $\mu$ m bare fiber	1 - 1.0 m
2 - FC/APC	L - 900 $\mu$ m loose tube	S - Specify
3 - SC/UPC	T - 900 $\mu$ m tight buffer	
4 - SC/APC	S - Specify	
N - None		
S - Specify		