



Polarization Insensitive Isolator (GK-PSSI & PDSI Series)

● Description

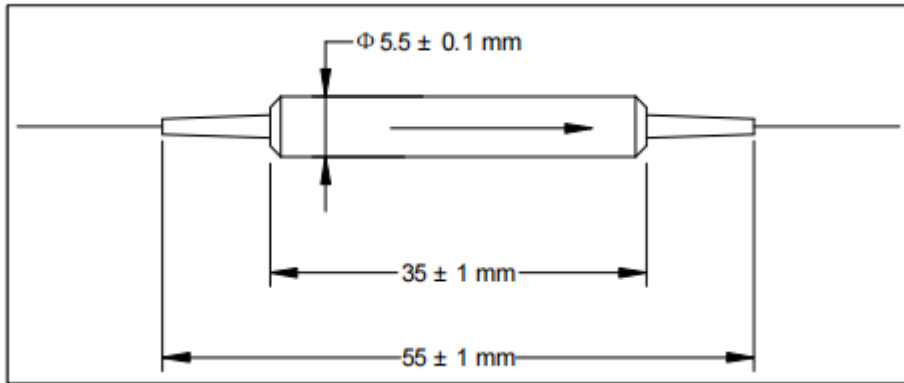
The Polarization Insensitive Isolator is designed and manufactured according to Telcordia standard. The unique manufacturing process and optical path epoxy-free design enhance the device high power handling capability. The device is characterized with high performance, high reliability and low cost. 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, 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	0.10	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			

¹IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

● Package Dimensions



● Ordering Information

GK-Single Stage: PSSI-①-②-③-④-⑤-⑥

GK-Dual Stage: PDSI--①-②-③-④-⑤-⑥

①: 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

④: Connector Type

1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑤: Fiber Jacket

B - 250 μm Bare Fiber
L - 900 μm Loose Tube
T - 900 μm Tight Buffer
S - Specify

⑥: Fiber Length

1 - 1.0 m
S - Specify