



2 μm Polarization Insensitive Isolator (GK-PSSI & PDSI Series)

● Description

The 2 μm 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. It is designed specially for 2 μm laser system.

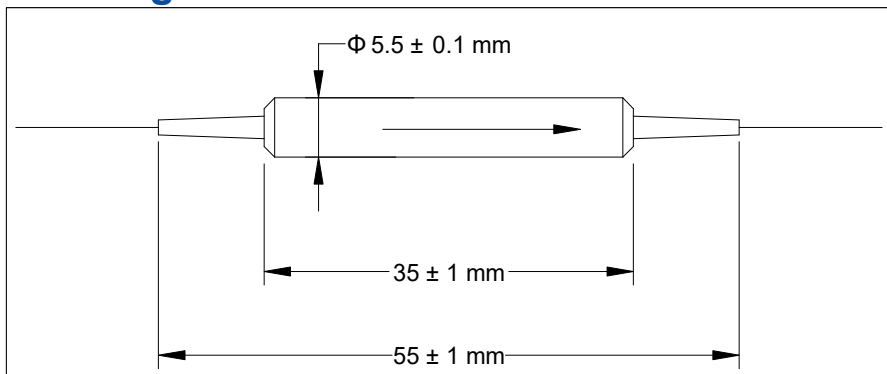
● Specifications

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	2000	
Max. Polarization Dependent Loss	dB	0.2	0.2
Min. Isolation, $\lambda_c \pm 50$ nm ^{23 °C} , all polarization states	dB	16	35
Max. Insertion Loss, $\lambda_c \pm 20$ nm, 23 °C, all polarization states	dB	1.3	1.5
Min. Return Loss (Input/Output)	dB	50	50
Max. Average Optical Power	W	1 or 2	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28 fiber or Nufern SM-1950 fiber	
Operating Temperature	°C	- 5 to + 70	
Storage Temperature	°C	- 40 to + 85	

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

²The optical power is 1 W only for connector added.

● Package Dimensions



● Ordering Information

GK-Single Stage: PSS-①-②-③-④-⑤-⑥-⑦

GK- Dual Stage: PDS-①-②-③-④-⑤-⑥-⑦

①: Wavelength

2000 - 2000 nm

SSSS - Specify

②: Handling Power

1 - 1 W

2 - 2 W

S - Specify

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Jacket

B - 250 μ m Bare Fiber

L - 900 μ m Loose Tube

S - Specify

⑤: Fiber Length

1 - 1.0 m

S - Specify

⑥: Fiber Type

1- SMF-28 Fiber

2 - Nufern SM 1950 Fiber

⑦: Power Type

P - Pulse Application

C - Continuous Wave