



2 μm Polarization Insensitive Isolator (PSSI & PDSI Series)

Rev 11B

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.

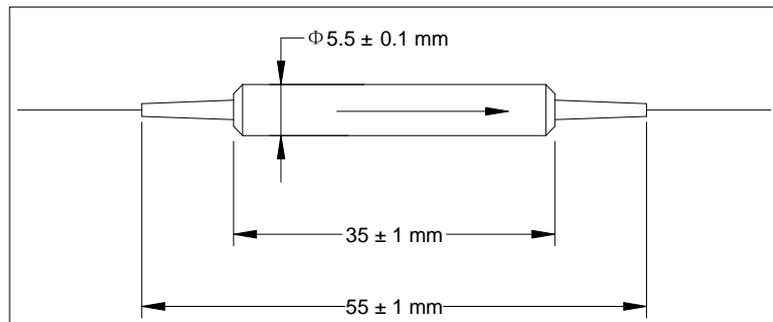
Specifications

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 $^{\circ}\text{C}$, all polarization states	dB	16	35
Max. Insertion Loss, $\lambda_c \pm 20$ nm, 23 $^{\circ}\text{C}$, 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	$^{\circ}\text{C}$	- 5 to + 70	
Storage Temperature	$^{\circ}\text{C}$	- 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

Single Stage: PSSI-①①①①-②-③-④-⑤-⑥-⑦

①①①①: Wavelength

2000 - 2000 nm

SSSS - Specify

⑤: Fiber Length

1 - 1.0 m

S - Specify

②: Handling Power

1 - 1 W

2 - 2 W

S - Specify

⑥: Fiber Type

1 - SMF-28 Fiber

2 - Nufern SM 1950 Fiber

Dual Stage: PDSI-①①①①-②-③-④-⑤-⑥-⑦

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Jacket

B - 250 μm Bare Fiber

L - 900 μm Loose Tube

S - Specify

⑦: Power Type

P - Pulse Application

C - Continuous Wave