



2 μ m Polarization Insensitive Isolator (PSSI & PDSI Series)

Rev 11B

Description

The 2 μ m Polarization Insensitive Isolator is designed and manufactured according to Telcordia standard. The unique manufacturing process and optical path epoxy-free design enhance the device's high power handling capability. This optical isolator is characterized with high performance and reliability. It is designed specially for 2 μ m laser system.

Key Features

- High Power Handling

Applications

- Fiber Laser

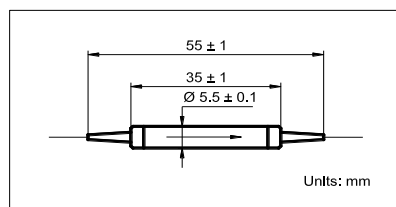
Specifications

Parameter	Unit	Value	
Stage	-	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, All Polarization States, 23 °C	dB	16	35
Max. Insertion Loss, $\lambda_c \pm 20$ nm, All Polarization States, 23 °C	dB	1.3	1.5
Min. Return Loss (Input/Output)	dB	50	50
Max. Average Optical Power	W	1 or 2	
Max. Peak Power (Pulse Width, 10 ns)	kW	10	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28 Fiber or Nufern SM1950 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

Single Stage: PSSI-①①①①-②-③-④-⑤-⑥-⑦

Dual Stage: PDSI-①①①①-②-③-④-⑤-⑥-⑦

①①①①: Wavelength	②: Handling Power	③: Connector Type	④: Fiber Jacket
2000 - 2000 nm	1 - 1 W	1 - FC/UPC 4 - SC/APC	B - 250 μ m Bare Fiber
SSSS - Specify	2 - 2 W	2 - FC/APC N - None	L - 900 μ m Loose Tube
	S - Specify	3 - SC/UPC	S - Specify
⑤: Fiber Length	⑥: Fiber Type	⑦: Power Type	
1 - 1.0 m	1- SMF-28 Fiber	P - Pulsed	
S - Specify	2 - Nufern SM1950 Fiber	C - Continuous Wave	
	S - Specify		