

1064 nm Polarization Insensitive Isolator (PSSI & PDSI Series)

Rev 11C

Description

The 1064 nm Polarization Insensitive Isolator features a compact package, low insertion loss, high isolation, high return loss and excellent environmental stability and reliability. With unique design, the device can handle very high peak power. This fiber isolator is ideal for suppressing back reflection in fiber lasers and other high performance laser based fiber optics systems.

Key Features

- High Isolation
- High Return Loss
- Low Insertion Loss

Applications

- Fiber Lasers
- Raman Amplifiers
- Transmitters

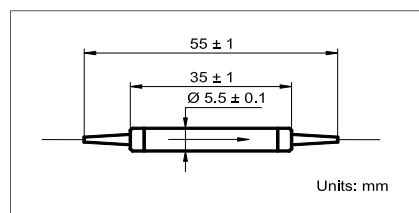
Specifications

Parameter	Unit	Value			
		Single Stage		Dual Stage	
Stage	-	Grade P	Grade A	Grade P	Grade A
Grade	-				
Center Wavelength (λ_c)	nm	1064			
Typ. Peak Isolation	dB	40	38	55	52
² Min. Isolation, λ_c , 23 °C, all polarization states, \leq 30 mW	dB	30	28	45	42
Typ. Insertion Loss, λ_c , 23 °C, all polarization states	dB	1.5	1.6	2.4	2.6
Max. Insertion Loss, λ_c , - 5 °C to + 50 °C, all polarization states	dB	2.0	2.2	3.4	3.6
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Max. Polarization Dependent Loss, 23 °C	dB	0.15	0.15	0.15	0.15
Max. Average Optical Power	mW	300			
Max. Peak Power for ns Pulse	kW	10			
Max. Tensile Load	N	5			
Fiber Type	-	HI 1060 Fiber			
Operating Temperature	°C	- 5 to + 50			
Storage Temperature	°C	- 40 to + 85			

¹IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

²The isolation is related to the input power. Please inform us when you need high isolation and operate above 30 mW.

Package Dimensions



Ordering Information

PSSI-06-①-②-③-④-⑤

PDSI-06-①-②-③-④-⑤

①: Grade	②: Connector Type	③: Fiber Jacket	④: Fiber Length	⑤: Power Type
P - Premium	1 - FC/UPC 4 - SC/APC	B - 250 μ m Bare Fiber	1 - 1.0 m	P - Pulse Application
A - A Grade	2 - FC/APC N - None	L - 900 μ m Loose Tube	S - Specify	C - Continuous Wave
	3 - SC/UPC S - Specify	S - Specify		