



1064 nm Free Space Isolator (FSI Series)

Rev 11B

Description

The Free Space Isolator series is designed for integration within laser diode package to prevent back reflection. The high isolation, low insertion loss and large aperture features make this free space isolator flexible to fit with different diode laser packaging requirements.

Key Features

- High Isolation
- Low Insertion Loss

Applications

- Fiber Lasers
- Protect Laser Chip

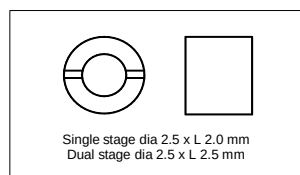
Specifications

Parameter	Unit	Value	
Stage	-	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	1064	
Peak Isolation	dB	40	52
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C	dB	30	42
Typ. Insertion Loss, 23 °C	dB	1	2.1
Max. Insertion Loss, 23 °C	dB	1.2	2.3
Clear Aperture	mm	0.9	
Max. Optical Power (Continuous Wave)	mW	300	
Polarization Plane of Input	-	As indicated	
Tilt Angle of Input Polarization	degree	0 or specify	
Operating Temperature	°C	0 to + 50	
Storage Temperature	°C	- 40 to + 85	

Reliability Test Specifications

High Temperature Storage Test	+ 85 °C for 2000 hours
Low Temperature Storage Test	- 40 °C for 2000 hours
High Temperature Test	+ 230 °C for 3 minutes
Temperature Cycling Test	- 40 °C to + 85 °C, rate 2 °C, dwell time at extremes for 20 minutes, 500 cycles
Vibration Test	10 - 2000 Hz sinusoidal, 20 G acceleration, 3 axes
Impact Test	3 times per direction for 6 direction (on 3 axes), 500 G, 1 ms

Package Dimensions



Ordering Information

FSI-①-②②-③

①: Stage

1 - Single Stage

2 - Dual Stage

②②: Wavelength

06 - 1064 nm

SS - Specify

③: Package Size

1 - Dia 2.5 mm

S - Specify