



## Free Space Isolator (FSI Series)

Rev 10

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 it flexible to fit with different diode laser packaging requirements.

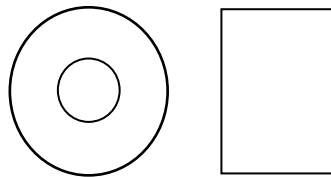
### Specifications

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength ( $\lambda_c$ )	nm		1310 or 1550
Peak Isolation	dB	42	55
Min. Isolation, $\lambda_c \pm 15$ nm, 23 °C	dB	30	40
Typ. Insertion Loss	dB	0.10	0.20
Max. Insertion Loss	dB	0.20	0.30
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 +60
Storage Temperature	°C		-40 to +85

### Reliability Test

High Temperature Storage Test	85 °C for 500 hours
Low Temperature Storage Test	-40 °C for 500 hours
High Temperature Test	230 °C for 3 minutes
Temperature Cycling Test	-40 °C to 85 °C, rate 2 °C/minute dwell time 20 minutes at -40 °C and 85 °C, 500 cycles
Vibration Test	10 - 2000 Hz sinusoidal, 20 g acceleration, 3 axes
Impact Test	8 drops per axis, 1.8 meter high

### Package Dimensions



Single Stage dia2.5 × L2.0 mm

Dual Stage dia2.5 × L2.5 mm

### Ordering Information

#### FSI-①-②②-③

①: Stage	②②: Wavelength	③: Package Size
1 - Single stage	31 - 1310 nm	1 - dia2.5 mm
2 - Dual stage	48 - 1480 nm	S - Specify
	55 - 1550 nm	
	SS - Specify	