

## 1064 nm Free Space Isolator (DL-FSI-X-YY-Z)

The Free Space Isolator is used within laser diode package to prevent back reflection.

The high isolation, low insertion loss and large aperture characteristics make it suitable to fit with different diode laser packaging requirements.

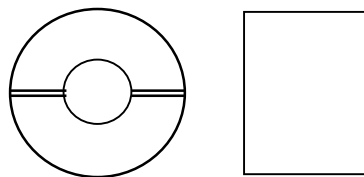
### A. Specifications

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

### B. Reliability Test Specifications

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, dwell time at extremes for 20 minutes, 500 cycles
Vibration Test	10 - 2000 Hz sinusoidal, 20 g acceleration, 3 axes
Impact Test	8 drops per axis, 1.8 meters high

### C. Package Dimensions



Single stage dia2.5 x L2.0 mm

Dual stage dia2.5 x L2.5 mm

### D. Ordering Information

#### DL-FSI-X-YY-Z

X: Stage	YY: Wavelength	Z: Package Size
1 - Single stage	06 - 1064 nm	1 - dia2.5 mm
2 - Dual stage	SS - Specify	S - Specify