



1064 nm Free Space Isolator (GK-FSI Series)

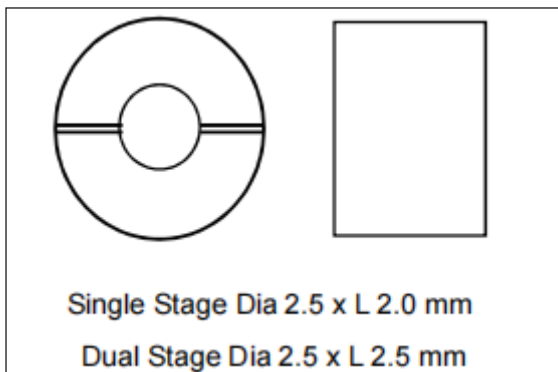
● Description

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 it flexible to fit with different diode laser packaging requirements.

● Specifications

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	1064	1064
Peak Isolation	dB	40	52
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C	dB	30	42
Typ. Insertion Loss, 23 °C	dB	1.0	2.1
Max. Insertion Loss, 23 °C	dB	1.2	2.3
Clear Aperture	mm	0.9	0.9
Max. Optical Power (Continuous Wave)	mW	300	300
Polarization Plane of Input	-	as indicated	as indicated
Tilt Angle of Input Polarization	degree	0 or specified	0 or specified
Operating Temperature	°C	0 to + 50	0 to + 50
Storage Temperature	°C	- 40 to + 85	- 40 to + 85
Reliability Test Specifications			
High Temperature Storage Test	°C	+ 85 °C for 500 hours	
Low Temperature Storage Test	°C	- 40 °C for 500 hours	
High Temperature Test	°C	+ 230 °C for 3 minutes	
Temperature Cycling Test	°C	40 °C to + 85 °C, rate 2 °C, dwell time at extremes for 20 minutes,500 cycles	
Vibration Test	Hz	10 - 2000 Hz sinusoidal, 20 g acceleration, 3 axes	
Impact Test	-	8 drops per axis, 1.8 meters high	

● Package Dimensions



● Ordering Information

GK-FSI-①-②-③

①: Stage

- 1 - Single Stage
- 2 - Dual Stage

②: Wavelength

- 06 - 1064 nm
- SS - Specify

③: Package Size

- 1 - Dia 2.5 mm
- S - Specify