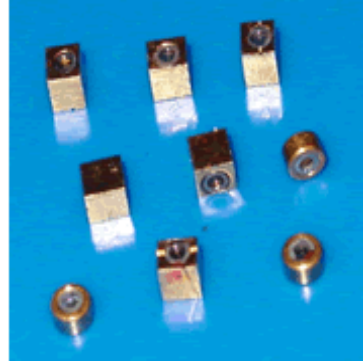


Free Space Isolator 1310nm 1480nm 1550nm 1W

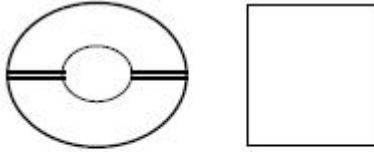
The Free Space Isolator series is designed for integration within laser diode prevent back reflection. The high isolation, low insertion loss and large aperture make it flexible to fit with different diode laserpackaging requirements.



Performance Specifications

Parameter	Unit	Single Stage			Dual Stage	
		1310	1480	1550		
Center Wavelength (λ_c)	nm					
Peak Isolation	dB	42				55
Min. Isolation over $\lambda_c \pm 15\text{nm}$ at 23°C	dB	32				45
Typ. Insertion Loss	dB	0.15				0.25
Max. Insertion Loss	dB	0.25				0.35
Clear Aperture	mm	0.9				
Max. Handling Power (CW, BD>0.4mm)	W	1				
Polarization Plane of Input		As Indicated				
Tilt Angle of Input Polarization	deg	0 or Specify				
Operating Temperature	°C	0 to +60				
Storage Temperature	°C	-40 to +85				

Size



Single Stage dia2.5xL2.0mm

Dual Stage dia2.5xL2.5mm

Reliability Test Specifications

High Temperature Storage Test

85°C for 500 hours

Low Temperature Storage Test

-40°C for 500hours

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

10-2000Hz sinusoidal, 20g acceleration, 3 axes

Impact Test

8 drops per axis, 1.8 meters high

Ordering Information

FSI-①-②②-③-④

①: Stage

1 - Single Stage

2 - Dual Stage

③: Grade

A- A grade

S - Specify

②②: Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify

④: Package Size

1 - 2.5x2.15mm

2 - dia2.5mm

S - Specify