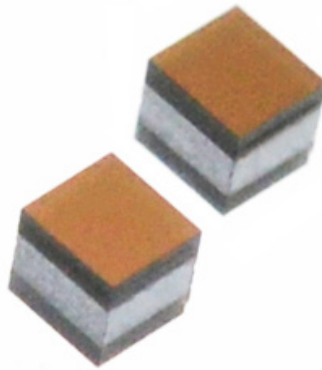


FREE SPACE ISOLATOR

Coherent's Free Space Isolators cores are used in various TOSAs, which require isolation to prevent feedback into the laser. This product is available in single and double stage designs. The Free Space Isolators offer excellent performance with low insertion loss and high isolation. Coherent's proprietary process, combined with 15+ years of volume manufacturing experience and high level capacity, results in a high reliability record.

We are providing various types FSIs including latching, non-latching; single stage, dual stage; core and assemblies. Typical assemblies include magnet rings, SMT, receptacles, Fiber array and relative cables.



FEATURES

- High Isolation
- Low Insertion Loss
- Compact Size
- Environmental Stable
- RoHS Compliant

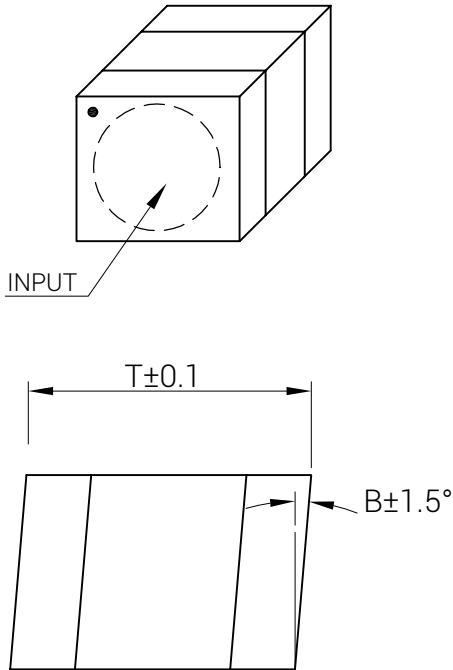
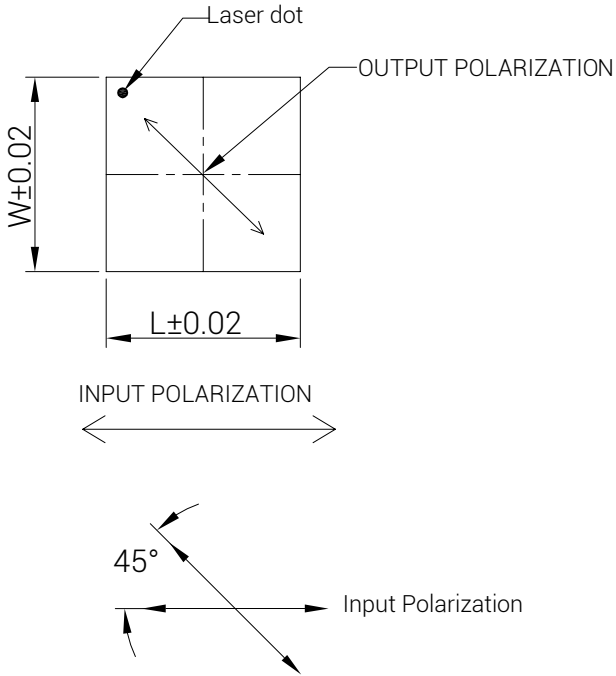
APPLICATIONS

- Optical Transmitter
- Fiber Laser
- Tunable Laser

Specifications

Parameter		Unit	Single Stage	Dual Stage
Operating Central Wavelength (°C)		nm	1310, 1550 or customized	
Wavelength Range		nm	CL ±20 or customized	
Isolation	Min.	dB	20	40
Insertion Loss	Max.	dB	0.4	0.60
Size		mm	0.45 x 0.45 or customized	
Operating Temperature		°C	-5 ~ 75	
Storage Temperature		°C	-40 ~ 85	

Note
 1. This is typical Specification. The size, wavelength, operating temperature and other configurations can be customized. Refer to Ordering Information.
 2. Isolation and Insertion loss are specified over operating temperature and wavelength range, will varies with operating range.



Ordering Information

XXXX – XXXX – X*X – XX – X – XX

Category A B C D E

Category	Construction	KPGP=Non-latching FSI Core single stage KPMP=Latching Core single stage KPGPGP=Non-latching FSI Core dual stage KPMPMP=Latching Core dual stage KPMPW=Latching Core single stage with wave plate KPGW=Latching Core 1 polarizer with wave plate Others=characters in sequence indicate material of layers
A	Center Wavelength	1310 = 1310 nm 1550 = 1550 nm XXXX = XXXX nm
B	Size (mm)	0.45*0.45 = 0.45*0.45 mm L*W = L*W mm
C	Coating	AA = Both side AR AU = Input side AR UA = Output side AR UU = No coating
D	Angle	0 = 0° A = A°
E	Polarization Rotation	CW = Clockwise CC = Counter Clockwise

Appendix

Free Space Isolator in other configuration is also available. Some typical configuration as below.

