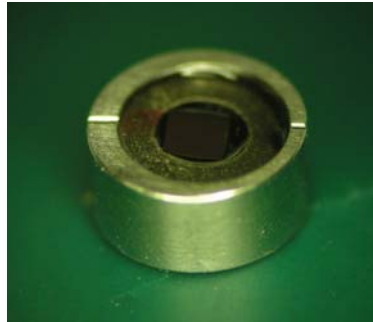


Features:

- High reliability
- Low insertion Loss
- High Isolation
- Optimized for different wavelengths
- Wide operating temperature range

Free Space Isolator



Finisar free space isolators are used in various TOSAs, which require isolation to prevent feedback into the laser. Available in single stage and semi-double stage designs.

Finisar free space isolators offer excellent performance with low insertion loss, high isolation. Our proprietary bonding process, and years of volume manufacturing experience, results in a high reliability record. Bare isolator chips survive more than 5,000hrs of damp heat testing without delamination.

Specifications:

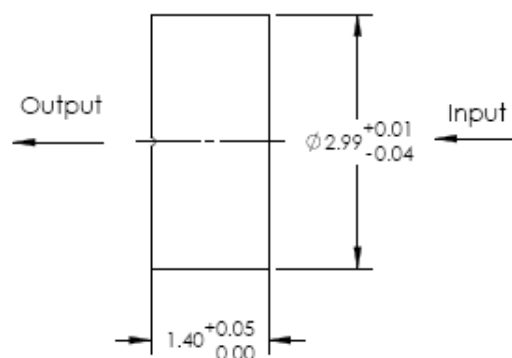
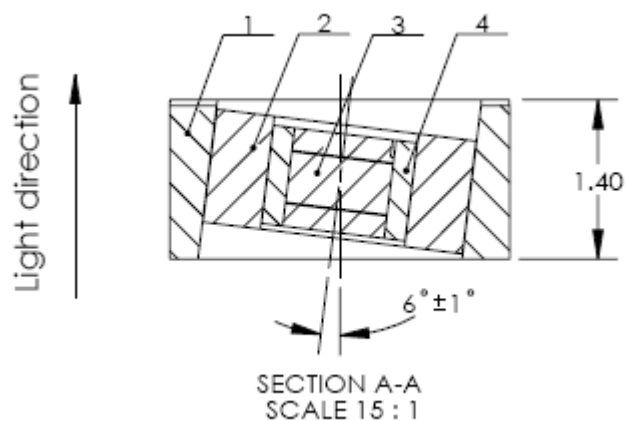
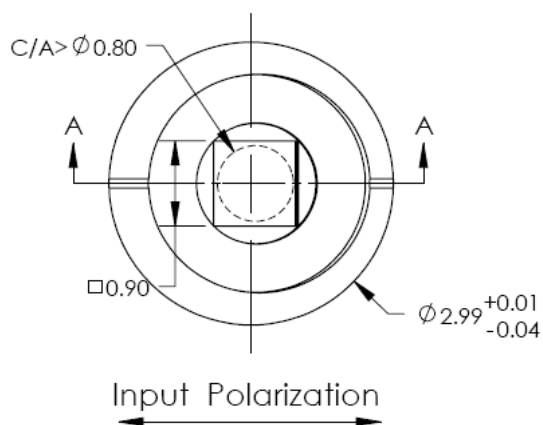
Single stage free space isolator specifications:

Parameters	Units	Specification	
CWL	nm	1310	1550
Operating wavelength	nm	1300-1320	1540-1560
Operating temperature	°C	-40 to 85	
Insertion loss	dB	< 0.3	
Min. Isolation *	dB	> 20	> 21
Isolation at center wavelength	dB	>33 dB @ 23°C	
Clear aperture	mm	> 0.8 diameter	
Tilt angle	DEG	6 +/- 1	
Storage temperature	°C	-40 to +100	

*Note: Over all wavelengths and temperatures.

Package Dimensions (unit:mm):

Single Stage Isolator (Round type)



Ordering Information

Part Number Description

FIF-S-55-080-R	Free space isolator, 1550nm, single stage, CA 0.8mm, round
FIF-S-31-080-R	Free space isolator, 1310nm, single stage, CA 0.8mm, round