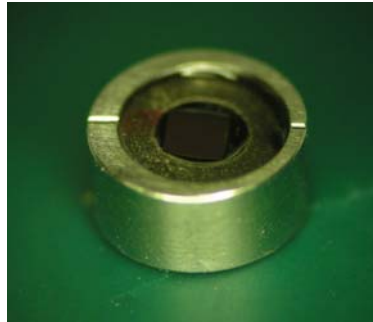


## Features:

- 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:

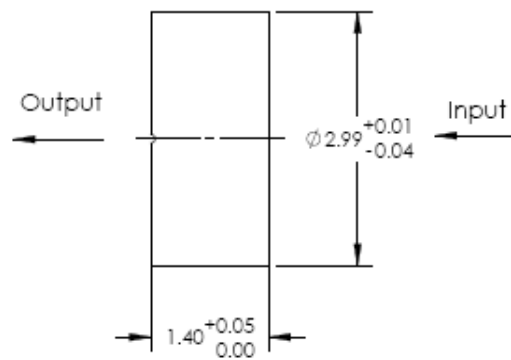
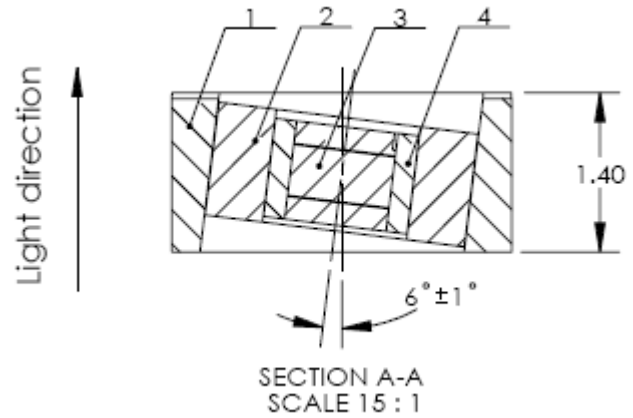
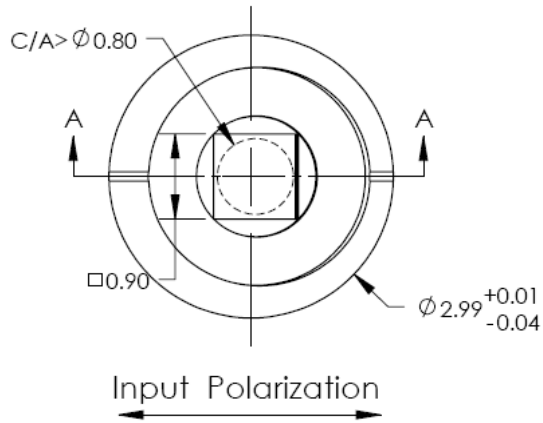
### Single stage free space isolator specifications:

| 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 |