

Semi-double Stage Isolator

Finisar free space isolators offer excellent performance with low insertion loss and 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.

Features:

- High reliability
- Low insertion loss
- High isolation
- Optimized for different wavelengths (1480nm, 1520nm, 1560nm, 1600nm)
- Wide operating temperature range

Applications:

- The semi-double stage free space isolators are used in various TOSAs, which require higher isolation to prevent feedback into the laser.

Specifications:

| Parameters | Units | Specification | | | |
|--------------------------------|-------|-----------------|-----------|-----------|-----------|
| CWL | nm | 1480 | 1520 | 1560 | 1600 |
| Operating wavelength | nm | 1465-1600 | 1500-1540 | 1540-1580 | 1580-1620 |
| Insertion loss | dB | < 0.6 | | | |
| Min. Isolation * | dB | > 40 | | | |
| Isolation at center wavelength | dB | >45 dB @ 23°C | | | |
| Clear aperture | mm | > 0.85 diameter | | | |
| Tilt angle | DEG | 6 +/- 1 | | | |
| Reflection | dB | < -24 | | | |
| Operating temperature | °C | -35 to +90 | | | |
| Storage temperature | °C | -40 to +100 | | | |

*Note: Over all wavelengths and temperatures.

Ordering Information:

1480 Semi-stage isolator: 1022777

1520 Semi-stage isolator: 1022778

1560 Semi-stage isolator: 1022779

1600 Semi-stage isolator: 1022780

Mounting Dimensions (for reference only): (Unit:mm)

