

# 2 $\mu\text{m}$ High Power Fiber Isolator

(patents pending)

## Product Description

This 2  $\mu\text{m}$  passive device transmits high power light from input fiber into output fiber while blocking the unwanted light from back reflection and scattering. Agiltron's proprietary magnetic-optics technology and advanced micro-optic technique enable industrial leading performance in power handling, low loss, reliability, and cost effective. Agiltron currently provides a full range of polarization-independent, polarization maintaining, and custom design versions with a broad wavelength coverage and various output beam diameters. We have experience to incorporate special fibers.

## Features

- High Power Handling
- High Isolation
- High Reliability
- Low IL, PDL & TDL
- Cost Effective

## Performance Specifications

| FSOI High power Isolator     | Min                         | Typical    | Max  | Unit               |
|------------------------------|-----------------------------|------------|------|--------------------|
| Operation Wavelength         | 1940                        | 2000       | 2050 | nm                 |
| Insertion Loss *             |                             | 0.8        | 1.0  | dB                 |
| Isolation                    | 22                          | 25         |      | dB                 |
| Polarization Dependent Loss  |                             | 0.2        | 0.3  | dB                 |
| Polarization Mode Dispersion |                             | 0.1        | 0.2  | ps                 |
| Return Loss                  | 45                          | 50         |      | dB                 |
| Optical Power Handling**     |                             | 0.5/1/2    |      | W                  |
| Extinction ratio***          | 20                          | 25         |      | dB                 |
| Fiber Type                   | See Order Information       |            |      |                    |
| Operation temperature        |                             | 0-70       |      | $^{\circ}\text{C}$ |
| Storage temperature          |                             | -10 to 60  |      | $^{\circ}\text{C}$ |
| Storage Humidity             | 5% to 95% (No Condensation) |            |      |                    |
| Package Dimension (Body)     |                             | 45x22x10.5 |      | mm                 |

Note:

\* Measured without connectors

\*\* Continuous operation, for pulse operation call

\*\*\* It is only available for PM isolator.

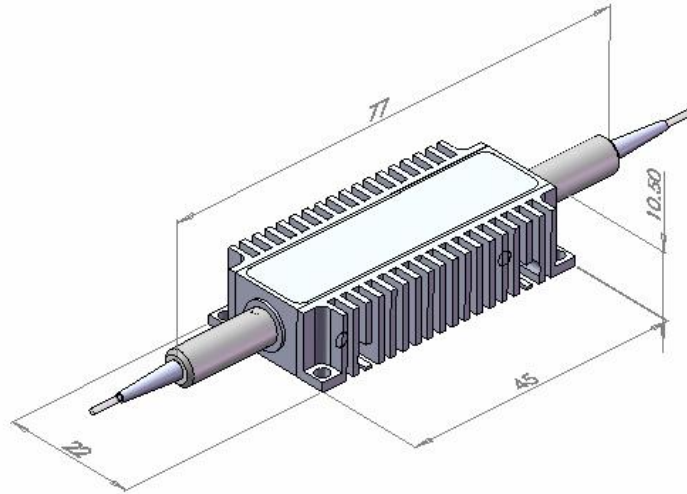
## Applications

- Laser Pump Source
- Optical Fiber Amplifier
- Laser Manufacturing
- laser Marking

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## Mechanical Footprint Dimensions (mm)



## Ordering Information

| FSOI-   | Type                              | Wavelength                              | Power handling  | Package                 | Fiber Type                        | Fiber Length   | Connector                                 |  |
|---|-----------------------------------|---|---|-------------------------|-----------------------------------|--|---|--|
| <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Regular=11<br>PM=12<br>Special=00 | 1940=1<br>2000=2<br>2050=3<br>Special=0 | 1W=1<br>2W=2<br>500mW=3<br>5W=5<br>10W=6<br>Special=0 | standard=1<br>Special=0 | SMF28=2<br>PM 1550=5<br>Special=0 | Bare fiber=1<br>900um loose tube=3<br>Armor cable=5<br>Special=0 | 0.25M=1<br>0.5M=2<br>1.0 M=3<br>Special=0 | None=1<br>FC/PC=2<br>FC/APC=3<br>SC/PC=4<br>SC/APC=5<br>ST/PC=6<br>LC=7<br>Special=0 |