

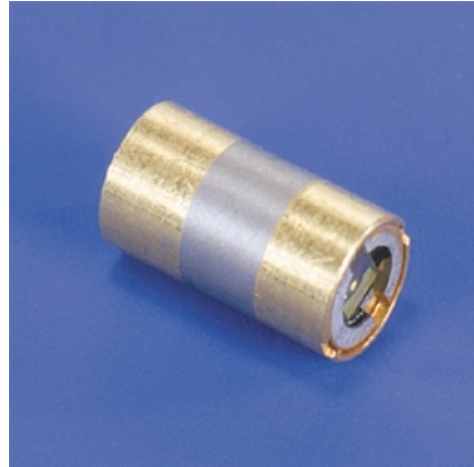
# 1310nm and 1550nm

## Product Description

The MicroMini isolators incorporate highly efficient optical components into a micro-miniature package.

ISOWAVE's double isolator offers the highest peak isolation available and includes the same polarization axis for input and out-put light.

ISOWAVE's semi-double isolator includes one polarizer between two Faraday rotators, offering superior isolation over wide ranges of temperature and wavelength.



## Applications

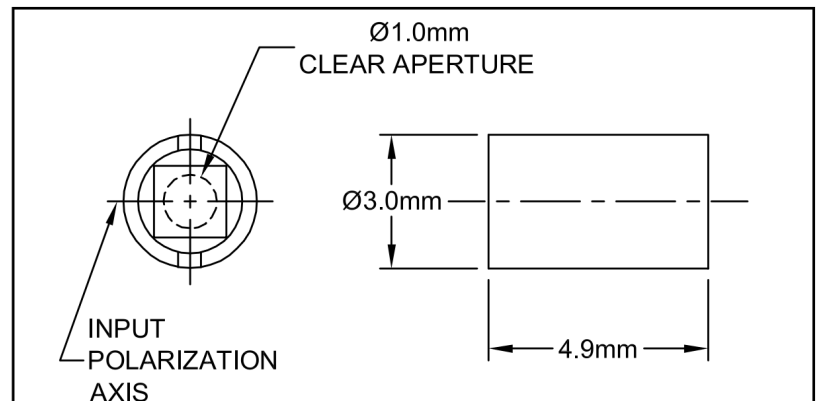
- Semiconductor Laser Modules
- Tunable Laser Modules
- Small Form Factor Laser Modules

## Features

- Low Insertion Loss
- High Isolation
- Micro-Miniature Size
- Broad Bandwidth
- Wide temperature range
- Polaziation alignment

## OUTLINE DRAWING

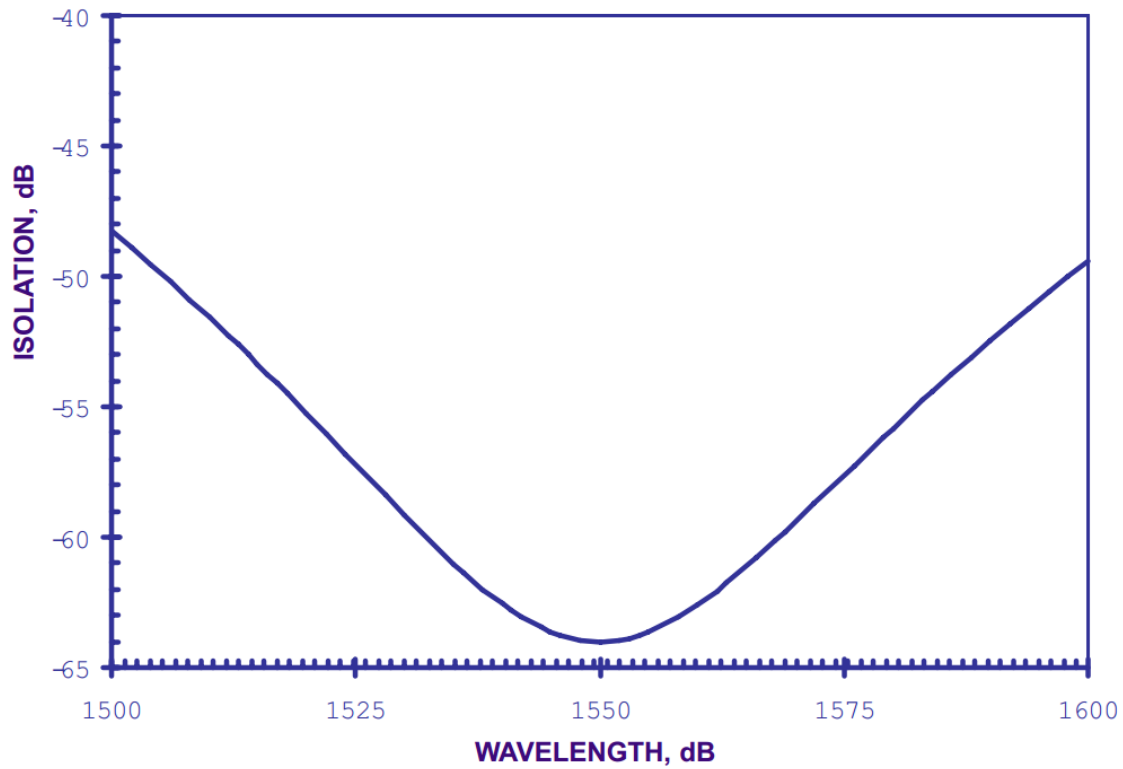
Model # I-15-MM-SD-4



|  | MM                      | LM  | MM-SD       | LM-SD | MM-TD    | LM-TD |
|--|-------------------------|-----|-------------|-------|----------|-------|
| Wavelength   | 1310nm                  |     | 1310nm      |       | 1310nm   |       |
|  | 1550nm                  |     | 1550nm      |       | 1550nm   |       |
| Isolation at 23°C  | ≥ 38dB                  |     | ≥ 55dB      |       | ≥ 63dB   |       |
| Isolation ± 20nm and over operating temperatures                                       | ≥ 20dB                  |     | ≥ 45dB      |       | ≥ 45dB   |       |
| Insertion Loss (typical)   | ≤ 0.2dB                 |     | ≤ 0.4dB     |       | ≤ 0.5dB  |       |
| Insertion Loss Over Wavelength   | ≤ 0.4dB                 |     | ≤ 0.6dB     |       | ≤ 0.7dB  |       |
| Clear Aperature (mm)   | 1.0                     | 1.4 | 1.0         | 1.4   | 1.0      | 1.4   |
| Bandwidth  | ± 20nm                  |     |             |       |          |       |
| Diameter (nominal) (mm)  | 3                       | 4   | 3           | 4     | 3        | 4     |
| Component Tilt Option  | 0° or 4° (as specified) |     |             |       |          |       |
| Length:  |                         |     |             |       |          |       |
| 0° tilt  | ≤ 2.5mm                 |     | ≤ 4.7mm     |       | ≤ 6.75mm |       |
| 4°   | ≤ 3.0mm                 |     | ≤ 5.0mm     |       | ≤ 7.0mm  |       |
| Operating Temperature  | -20° to +70°C           |     | 0° to +70°C |       |          |       |
| Storage Temperature  | -40° to +85°C           |     |             |       |          |       |
| For custom configurations or specifications, please contact an ISOWAVE sales engineer. |                         |     |             |       |          |       |

# THEORETICAL ISOLATION CURVE

Model # I-15-MM-SD-4



## ORDERING INFORMATION

