

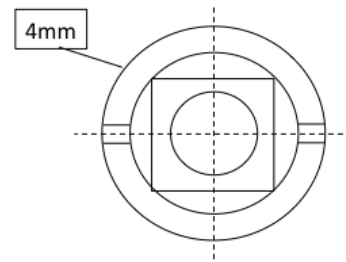
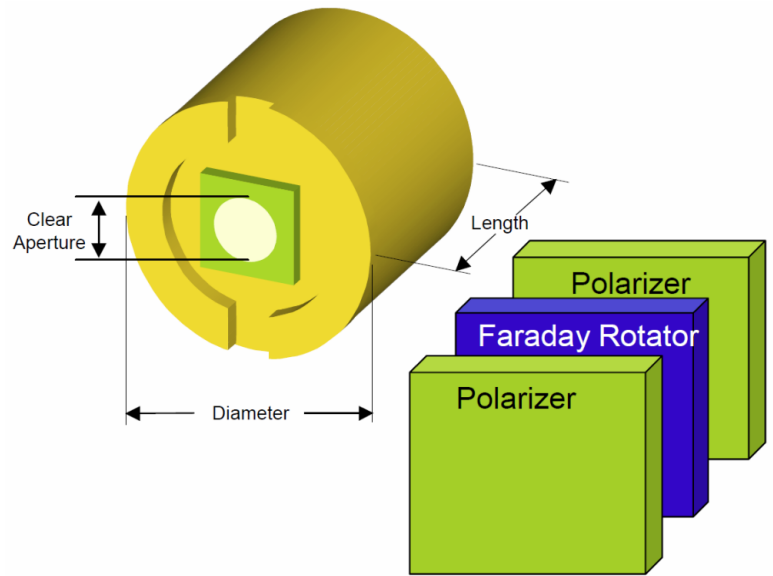
780nm and 800nm

Product Description

The I-780-LM and I-800-LM miniature designs provide flexibility, convenience and performance for low power lasers. I-780-LM covers 770 through 790nm and the I-800-LM is used for the 790 through 810nm wavelength range. This design incorporates a Faraday rotator made of LPE film.

All our units are marked for polarization orientation on the input side.

This model is recommended for low power applications only, due to absorption of the Faraday rotator material. Metal-bonded or hermetic construction options are available for OEM requirements. Standard wavelength of optimization is 780nm and 800nm for the I-780-LM and I-800-LM respectively. When placing an order please specify preferred wavelength of optimization.

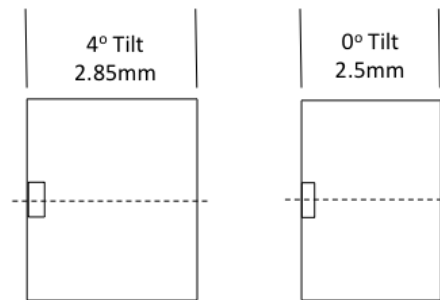


Applications

- 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
- Polarization alignment



| | I-780-LM | I-800-LM |
|--|------------------------|---------------|
| Wavelength (specify center wavelength) | 770nm - 790nm | 790nm - 810nm |
| Peak Isolation (typical) | ≥ 38dB | |
| Isolation Over Wavelength (minimum) | ≥ 23dB | |
| Insertion Loss (typical) | ≤ 3.5dB | |
| Insertion Loss (maximum) | ≤ 4.0dB | |
| Diameter (nominal) | 4.0mm | |
| Length: | | |
| 0° tilt | ≤ 2.5mm | |
| 4° tilt | ≤ 2.85mm | |
| Clear Aperture | 1.4mm | |
| Operating Temperature (non-condensing) | -20° to +70°C | |
| Storage Temperature (non-condensing) | -40° to +85°C | |
| Polarization of Input | Indicated | |
| Polarization of Output | 45° (nominal) to input | |