

Round Mini Optical Isolator



DESCRIPTION

ISOWAVE's Round Mini optical isolators offer new opportunities for laser diode manufacturers requiring an in-package ultra-high performance isolator. These small isolators incorporate highly efficient optical components into an extremely small package.

APPLICATIONS

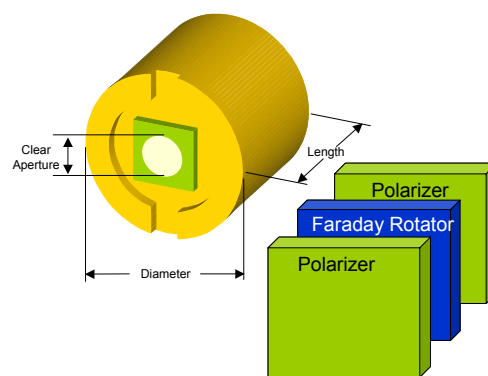
-Semiconductor Laser Modules
-Tunable Laser Modules

-Small Form Factor Laser Modules

FEATURES

- High Isolation / Low Insertion Loss
- Micro-Miniature Size
- Available in Single Stage or Semi-Double Stage or True Double Stage
- Broad Bandwidth
- Polarization Alignment

SAMPLE DIAGRAM



<u>SPECIFICATIONS</u>	Single Stage				Semi-Double Stage				True Double Stage			
Center Wavelength *	1310nm	1480nm	1550nm	1590nm	1310nm	1480nm	1550nm	1590nm	1310nm	1480nm	1550nm	1590nm
Clear Aperture	0.6mm - 1.6mm											
Physical Dimensions (D,L)	D: 3mm - 4mm L: 1.93mm - 2.82mm				D: 3mm - 4mm L: 3.5mm - 5.0mm				D: 3mm - 4mm L: 6.75mm - 7.0mm			
Peak Isolation (typical)	≥ 40dB				≥ 60dB				≥ 65dB			
Insertion Loss (typical)	≤ 0.2dB				≤ 0.4dB				≤ 0.5dB			
Operating Temperature Range	-20°C ~ + 70°C											
Storage Temperature Range	-40°C ~ + 85°C											
Maximum Power Density	100W/cm ²											
Polarization Input/Output	Can be User Specified											
* wavelengths from 1300—1620nm available upon request												

10/02



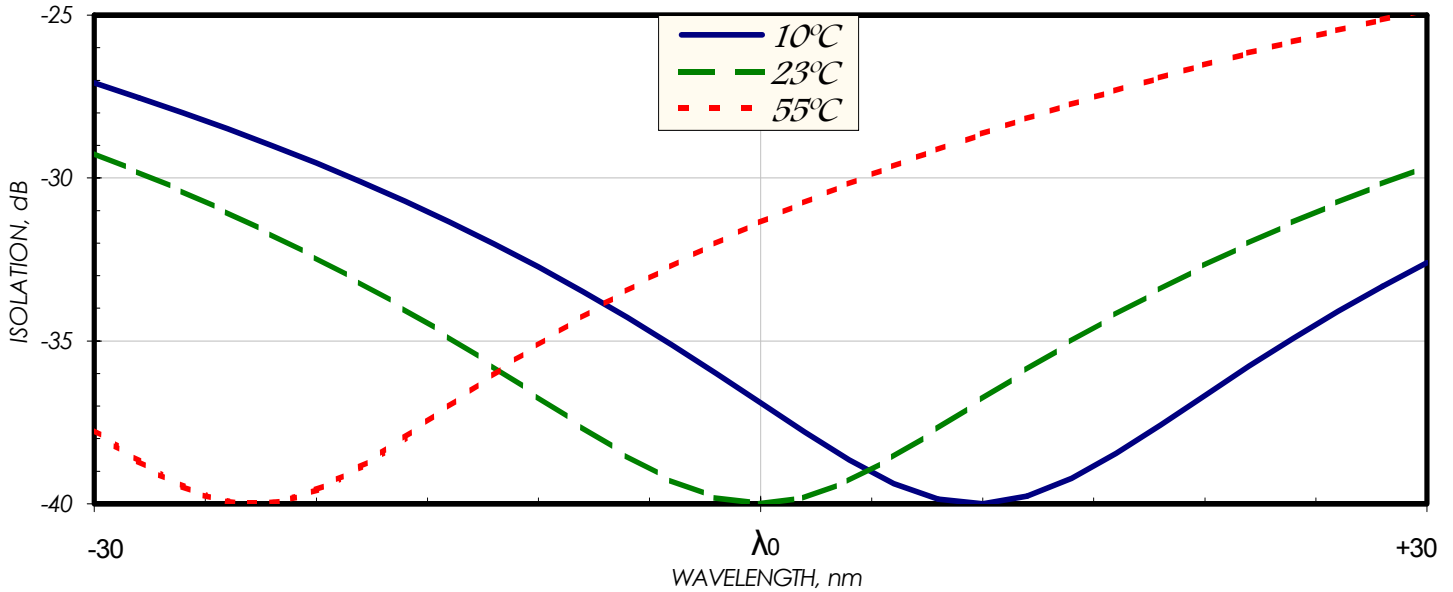
www.isowave.com
info@isowave.com

ISOWAVE
64 Harding Avenue
Dover, New Jersey 07801
Tel 973-328-7000
Fax 973-328-7036

Round Mini Optical Isolator

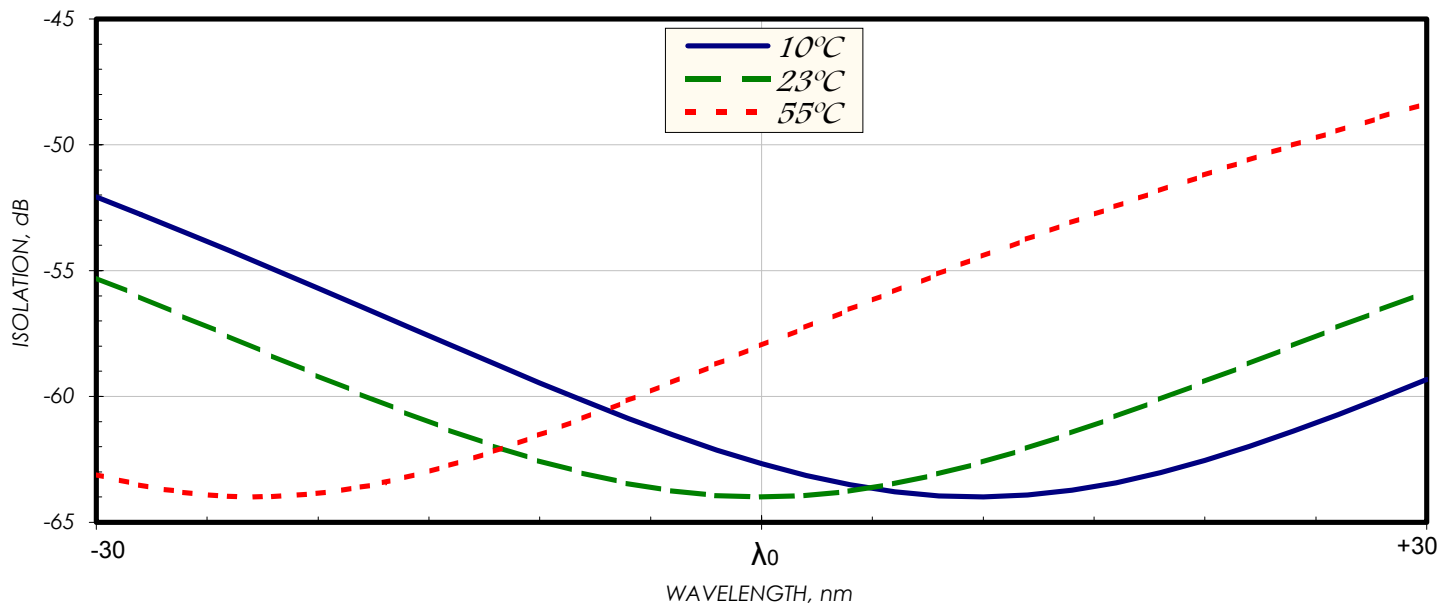
THEORETICAL ISOLATION CURVE

Single Stage Mini



THEORETICAL ISOLATION CURVE

Semi-Double Stage Mini



10/02



www.isowave.com
info@isowave.com

ISOWAVE
64 Harding Avenue
Dover, New Jersey 07801
Tel 973-328-7000
Fax 973-328-7036