

OPTICAL ISOLATORS – LATCHED PRODUCT BRIEF

API Nanotronics Introduces Nanooptics-based optical isolators from its [NanoOpto](#) Division. The isolators address the requirements of preventing light in optical communications networks from scattering back into the laser source and degrading output power and wavelength stability. It provides the same functionality as existing optical isolators, allowing only one-way light transmission, but with compelling cost advantages.

Using its patented GPOL polarizer allows NanoOpto to respond to the market need to reduce component costs. NanoOpto's value priced isolators allow the device designer to optimize price & performance.

KEY FEATURES AND BENEFITS

Operation Wavelengths

- Standard: 1310, 1490, 1550
- Custom wavelengths available

Isolation

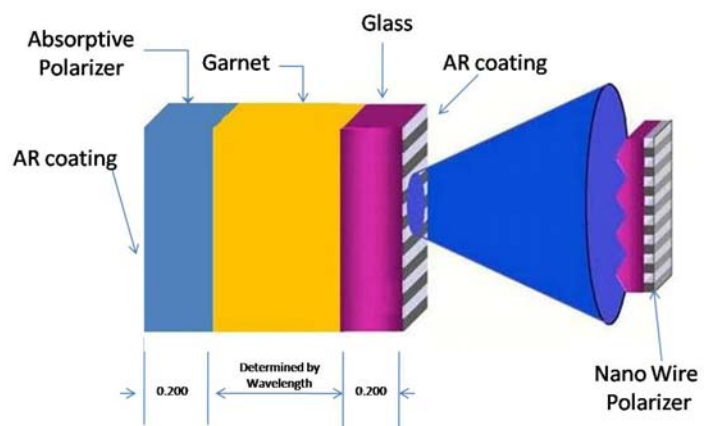
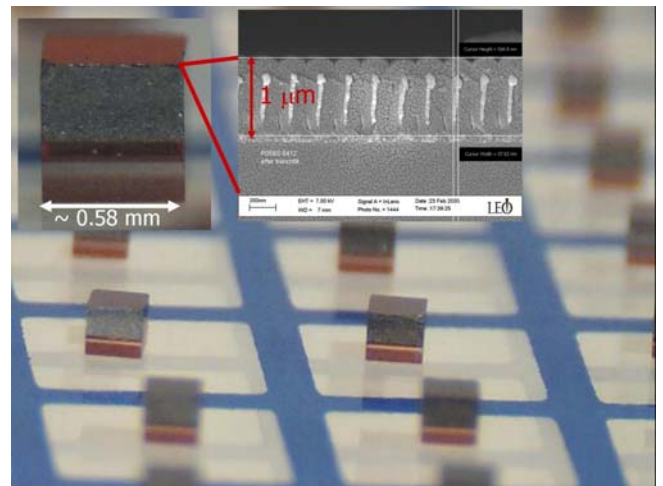
- Peak isolation >30dB
- Standard: >20dB over temp & wavelength
- Custom tunable for temp & wavelength operation

Sizes

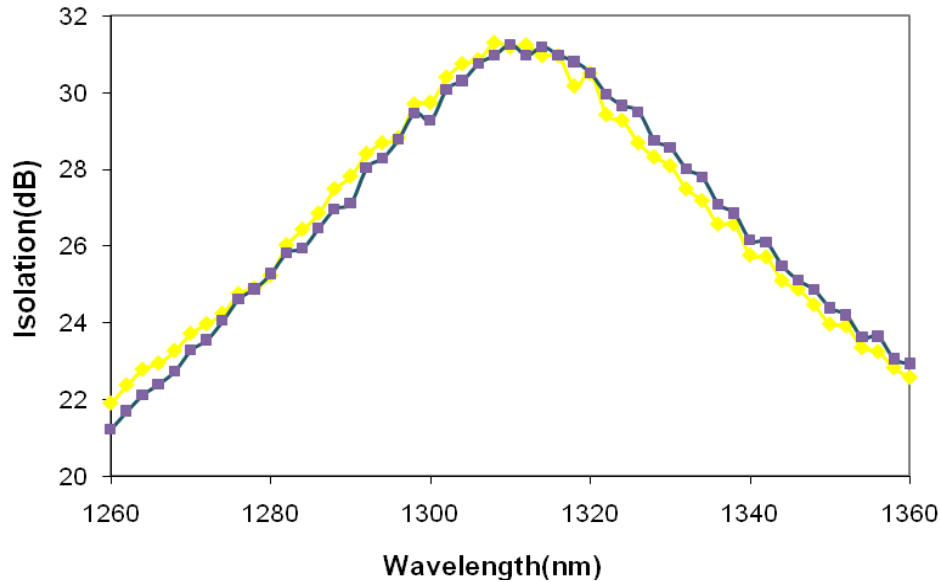
- Standard: 0.51mm, 0.59mm, 1mm
- Custom sizes available

Operating temperature range

- 0° to 75°C
- Wider range capable



1310nm Optical Isolator



| ISL Series – Latched Isolators | | | | | | |
|-----------------------------------|--------|----------------|----------------|------------|-------|---------|
| Part # | C.A. | Size | Wavelength | Temp | Iso* | I/L * |
| ISL-1310-AA00-xxx | 0.40mm | 0.51 x 0.51 mm | 1295 to 1325nm | 0 to 75° C | >20dB | <0.30dB |
| ISL-1310-AA00-xxx | 0.50mm | 0.59 x 0.59 mm | 1295 to 1325nm | 0 to 75° C | >20dB | <0.30dB |
| ISL-1310-AA00-xxx | 0.80mm | 1.0 x 1.0 mm | 1295 to 1325nm | 0 to 75° C | >20dB | <0.30dB |
| ISL-1550-AA00-xxx | 0.40mm | 0.51 x 0.51 mm | 1535 to 1565nm | 0 to 75° C | >20dB | <0.30dB |
| ISL-1550-AA00-xxx | 0.50mm | 0.59 x 0.59 mm | 1535 to 1565nm | 0 to 75° C | >20dB | <0.30dB |
| ISL-1550-AA00-xxx | 0.80mm | 1.0x 1.0 mm | 1535 to 1565nm | 0 to 75° C | >20dB | <0.30dB |
| * Over wavelength and temperature | | | | | | |

Find out more about NanoOpto at: www.nanoopto.com

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