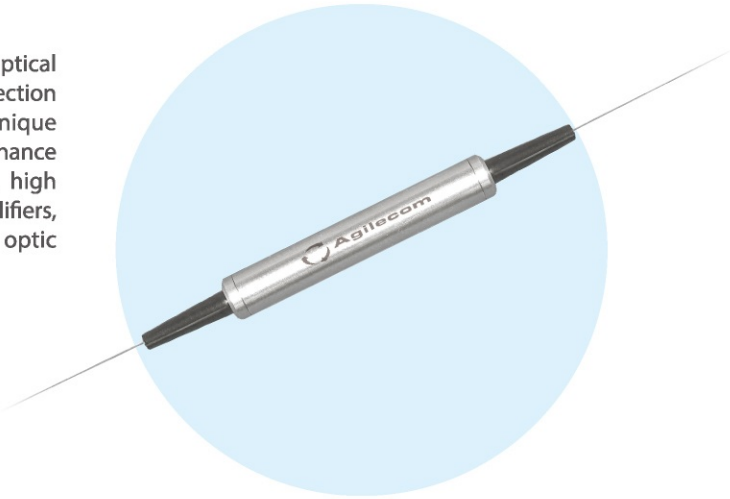
Agilecom
PHOTONICS SOLUTIONS

# Optical Isolator

Agilecom's Optical Isolator, utilizing Faraday effect of Magneto optical crystal, is a passive component which guides optical light in one direction and resists the optical light in the backward direction. The unique manufacturing process and the epoxy-free optical path design enhance the device's high power applications. With high performance, high reliability and low cost , it has been widely used in EDFA, Raman amplifiers, DWDM systems, fiber lasers, transmitters and other fiber optic communication equipment.




### Features

- High Isolation
- Low Insertion Loss
- High Return Loss
- Low Polarization Sensitivity

### Applications

- Fiber Optic Amplifiers
- CATV Fiber Optic Links
- Fiber Optic Systems Testing
- Fiber Optic LAN Systems
- Telecommunications

## Specifications

| Parameters | Unit | Specifications | |
|---|---|---|---|
| Stage | / | Single | Dual |
| Center Wavelength | nm | 1310 or 1550 | |
| Operating Waveband | nm | λc±30 | λc±30 |
| Typ.Insertion Loss | dB | ≤0.40 | ≤0.50 |
| Max.Insertion Loss | dB | ≤0.60 | ≤0.70 |
| Polarization Dependent Loss | dB | ≤0.05 | ≤0.10 |
| Isolation Room Temperature | dB | ≥30 | ≥45 |
| Return Loss | dB | ≥55 | ≥55 |
| Power Handling | mW | 500 | 500 |
| Pigtail Type | / | SM 250μm Bare Fiber or 0.9mm Loose Tube | |
| Operating Temperature | ℃ | -5 to 70 | |
| Storage Temperature | ℃ | -40 to 85 | |
| Package Dimension | mm | Ø5.5 x L35 | |

Note: Specifications without connectors

## Order Information

ISO — □ □□ □ □ □ □ □

| Code | Stage |
|---|---|
| S | Single Stage |
| D | Dual Stage |

| Code | Operating Wavelength(nm) |
|---|---|
| 13 | 1310 |
| 15 | 1550 |
| XX | Customized |

| Code | Package(mm) |
|---|---|
| 1 | 5.5x35 |
| 2 | 5.5x50 |
| X | Customized |

| Code | Pigtail Type |
|---|---|
| 0 | 250μm Bare Fiber |
| 1 | 0.9mm Loose Tube |
| 2 | 2.0mm Loose Tube |
| 3 | 3.0mm Loose Tube |
| 4 | 0.9mm Tight Tube |
| 5 | 2.0mm Tight Tube |
| 6 | 3.0mm Tight Tube |
| X | Customized |

| Code | Fiber Length(m) |
|---|---|
| 1 | 0.5 |
| 2 | 1 |
| 3 | 1.5 |
| 4 | 2 |
| 5 | 2.5 |
| 6 | 3 |
| X | Customized |

| Code | Connector |
|---|---|
| 0 | None |
| 1 | SC/UPC |
| 2 | SC/APC |
| 3 | FC/UPC |
| 4 | FC/APC |
| 5 | LC/UPC |
| 6 | LC/APC |
| X | Customized |