

1230nm Polarization Insensitive / Sensitive Isolator (IS)

Features

- Wide Operating Wavelength
- High Isolation & Low Insertion Loss
- Low PDL
- Telcordia GR-1221 Compliant
- Polarization Insensitive and Polarization Sensitive (Dependent)

Application

- Fiber Amplifier
- Fiber Laser
- Surgical Equipment

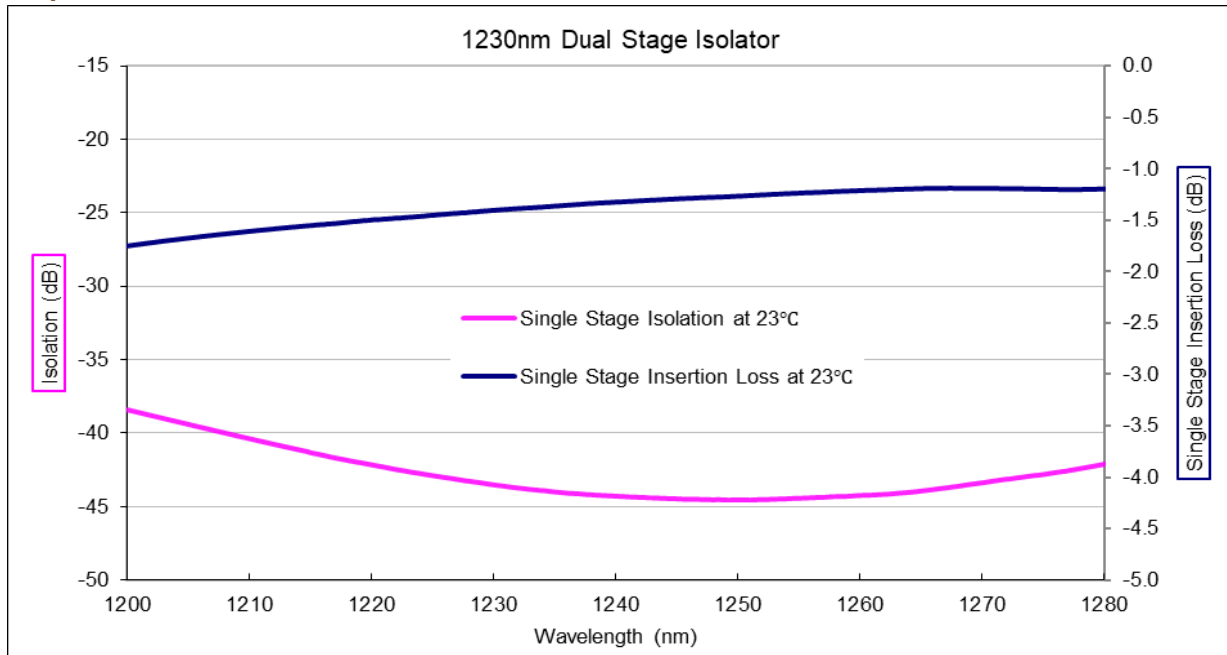


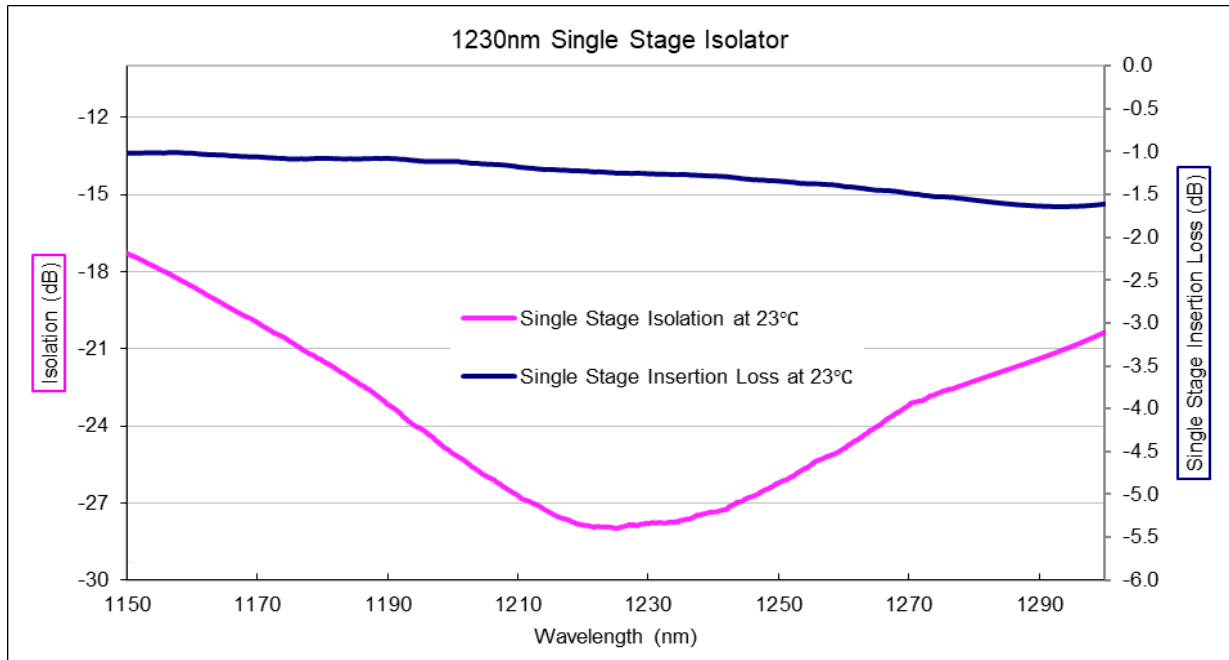
Specifications

| Parameters | Unit | Single Stage | Dual Stage |
|--|--------------------------|----------------|--------------|
| Center Wavelength | nm | 1230 | |
| Peak isolation | dB | 42 | 58 |
| Min Isolation ($\lambda c \pm 15\text{nm}, 23^\circ\text{C}$ all sop) | dB | 28 | 48 |
| Typ. IL ($\lambda c \pm 20\text{nm}, 23^\circ\text{C}$ all sop) | dB | 0.35 | 0.40 |
| Insertion Loss ($\lambda c \pm 20\text{nm}, -5 \sim +70^\circ\text{C}$ all sop) | dB | ≤ 0.50 | ≤ 0.55 |
| Polarization Dependent Loss (PDL) | Polarization Insensitive | dB | ≤ 0.10 |
| | Polarization Sensitive | dB | ≥ 20 |
| PMD | ps | ≤ 0.2 | ≤ 0.05 |
| Return Loss (Input / Output) (RL) | dB | $\geq 60/55$ | $\geq 60/55$ |
| Fiber Type | | SMF-28e | |
| Max Power Handling CW | mW | 500 | |
| Operating Temperature | $^\circ\text{C}$ | $-0 \sim +75$ | |
| Storage Temperature | $^\circ\text{C}$ | $-40 \sim +85$ | |

Above data test at room temperature without connectors. With connectors, IL+0.3dB, RL-5dB.

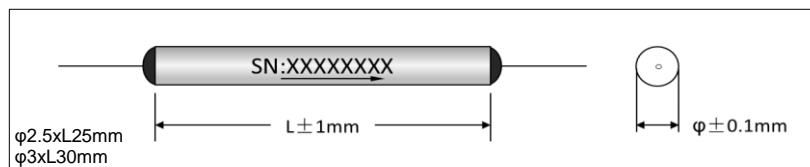
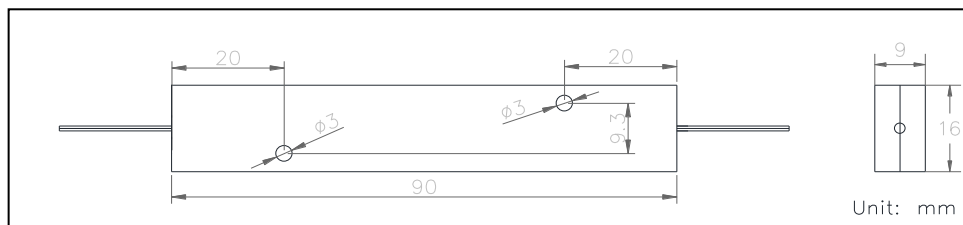
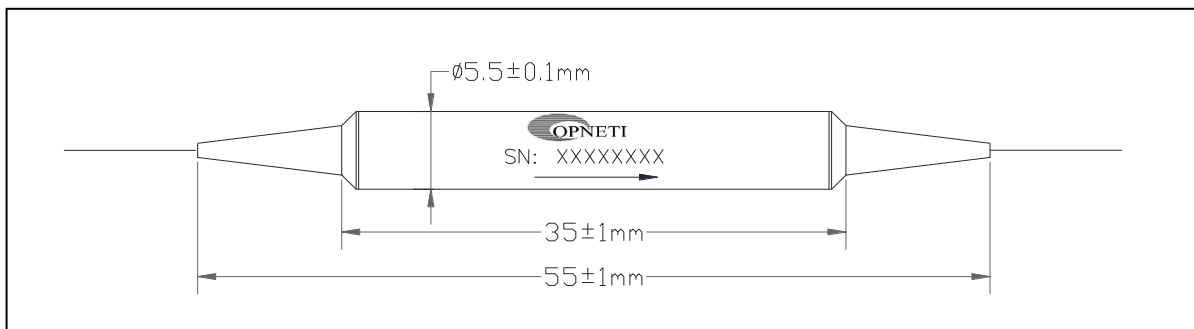
Typical Spectrum





Package Information

| | | | |
|-------------------|---------------------------------|------------------|---------------------------|
| Fiber Length | 1m, others on request | | |
| Pigtail Type | 250µm Bare Fiber | 900µm Loose Tube | 2mm/3mm Loose Cable |
| Dimensions(mm) | φ2.5x25, φ3x25, φ3x30, φ5.5x35, | φ5.5x35, 90x16x9 | φ5.5x35(no boot), 90x16x9 |
| Approx Weight (g) | 35 | 50 | 65 |



Ordering Information

IS- ①-②②②②②-③-④④④-⑤-⑥-⑦⑦

| | | |
|---|----------------|--|
| ① | Type | S=Single Stage; D=Dual Stage; |
| ② | Wavelength | 1230; |
| ③ | Axis Alignment | 1=Polarization Sensitive; 2=Polarization Insensitive; |
| ④ | Pigtail Type | 250=250μm Fiber; 900=900μm Loose Tube; 2000=2mm Loose Cable; 3000=3mm Loose Cable; |
| ⑤ | Fiber Type | 1=SMF-28e; |
| ⑥ | Fiber Length | 1=1m; XX=other; |
| ⑦ | Connector | NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others; |