

1230nm High Power Isolator (HPIS / HPMIS)

Features

- Wide Operating Wavelength
- High Isolation & High PER
- Telcordia GR-1221 Compliant
- Available for Both Axes Pass or Fast Axis Block

Application

- PM Fiber Amplifier
- Transmitters & Fiber Laser
- Testing Equipment
- WDM & DWDM System



Specifications

| Parameters | Unit | Single Stage | Dual Stage |
|---|-------------------|-----------------|--------------|
| Center Wavelength | nm | 1230 | |
| Peak isolation | dB | 42 | 58 |
| Min Isolation ($\lambda c \pm 15\text{nm}, 23^\circ\text{C}$) | dB | 28 | 48 |
| Typ. IL ($\lambda c \pm 20\text{nm}, 23^\circ\text{C}$) | dB | 0.35 | 0.40 |
| Insertion Loss ($\lambda c \pm 20\text{nm}, -5 \sim +70^\circ\text{C}$) | dB | ≤ 0.50 | ≤ 0.55 |
| Polarization Dependent Loss (PDL) (for SMF) | dB | ≤ 0.05 | ≤ 0.10 |
| PER (for PMF) | Both Axes Pass | dB | ≥ 20 |
| | Fast Axis Blocked | dB | 23.00 |
| Return Loss (Input / Output) (RL) | dB | $\geq 60/55$ | $\geq 60/55$ |
| Fiber Type | | SMF-28e, PM1300 | |
| Max Power Handling CW | W | 1, 2 | |
| Operating Temperature | $^\circ\text{C}$ | $-0 \sim +75$ | |
| Storage Temperature | $^\circ\text{C}$ | $-40 \sim +85$ | |

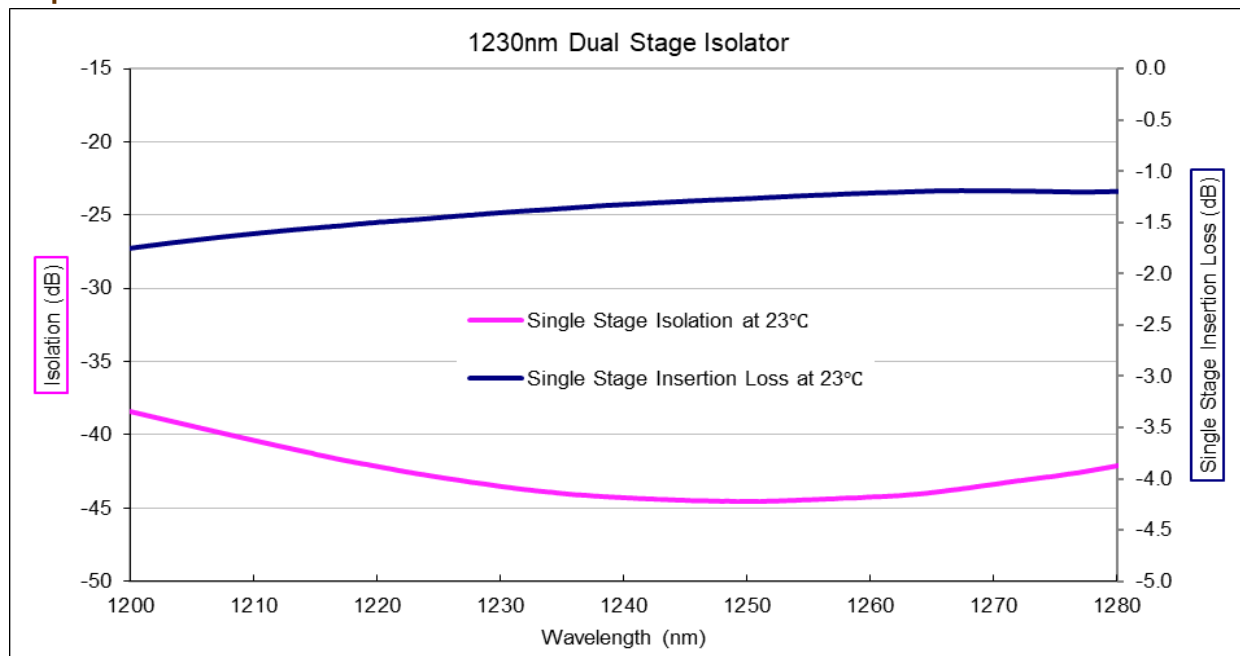
Above data test at room temperature without connectors. With connectors, IL+0.3dB, RL-5dB, PER-2dB.

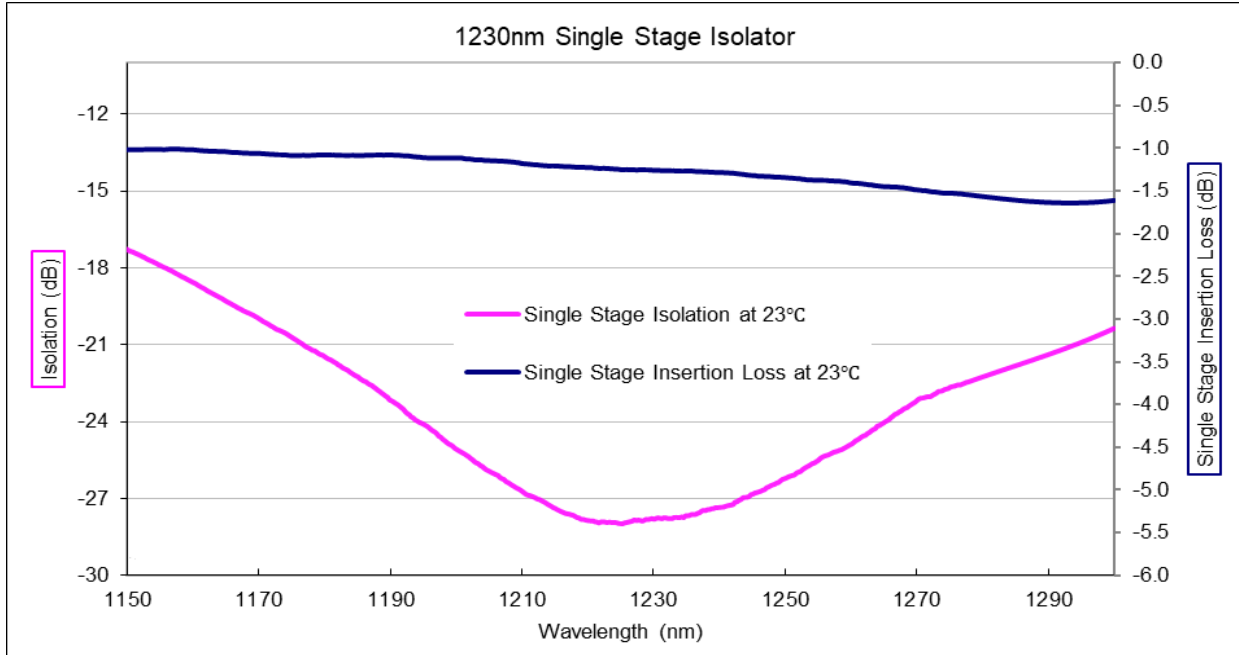
Optical Power 1W only after connector added.

Default connector key is aligned to slow axis.

Default FC connector key width 2.02mm (narrow key), 2.12mm (wide key) available on request.

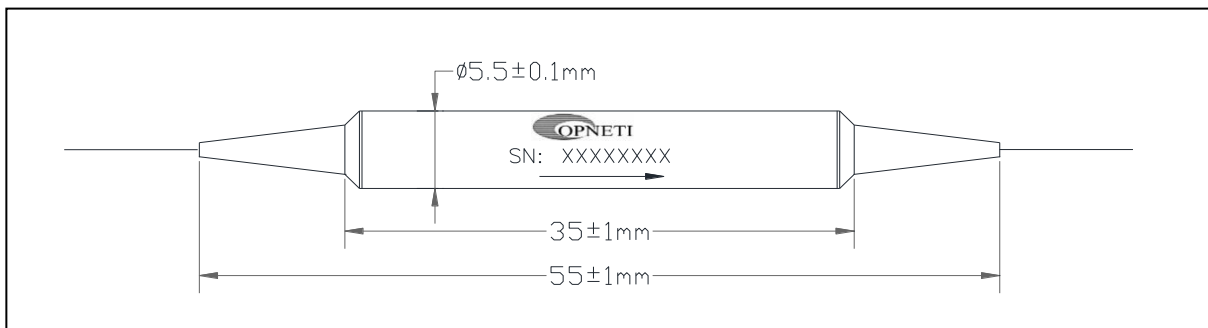
Typical Spectrum



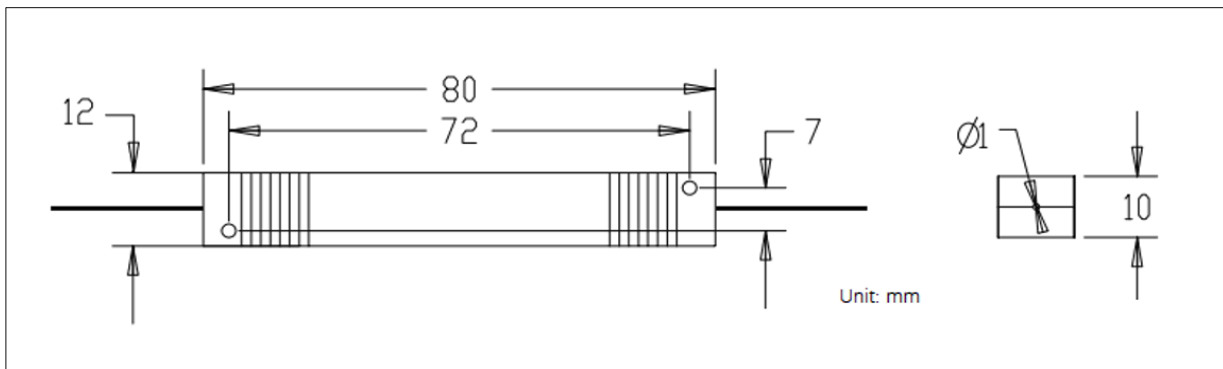


Package Information

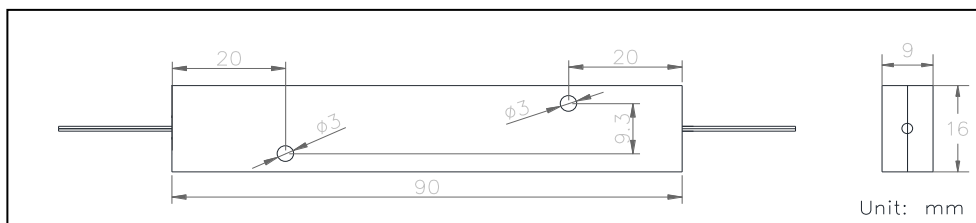
| | | | |
|-------------------|-----------------------|------------------|---------------------------|
| Fiber Length | 1m, others on request | | |
| Pigtail Type | 250µm Bare Fiber | 900µm Loose Tube | 2mm/3mm Loose Cable |
| Dimensions(mm) | φ5.5x35, 80x12x10 | φ5.5x35, 90x16x9 | φ5.5x35(no boot), 90x16x9 |
| Approx Weight (g) | 35 | 50 | 65 |



for 1W



for 2W



for 1~2W, with loose tube

Ordering Information

HPIS- ①-②②②②-③-④④④-⑤-⑥-⑦⑦-⑧⑧⑧⑧⑧-⑨⑨
 HPMIS-

| | | |
|---|----------------|--|
| ① | Type | S=Single Stage; D=Dual Stage; |
| ② | Wavelength | 1230; |
| ③ | Axis Alignment | F=Fast Axis Blocked; B=Both Axes Working; |
| ④ | Pigtail Type | 250=250μm Fiber; 900=900μm Loose Tube; 2000=2mm Loose Cable; 3000=3mm Loose Cable; |
| ⑤ | Fiber Type | 1=SMF-28e; P13=PM1300; |
| 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; |
| ⑧ | Package size | 5.5x35; 80x12x10; |
| ⑨ | Power Handling | 1W; 2W; |