

## 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

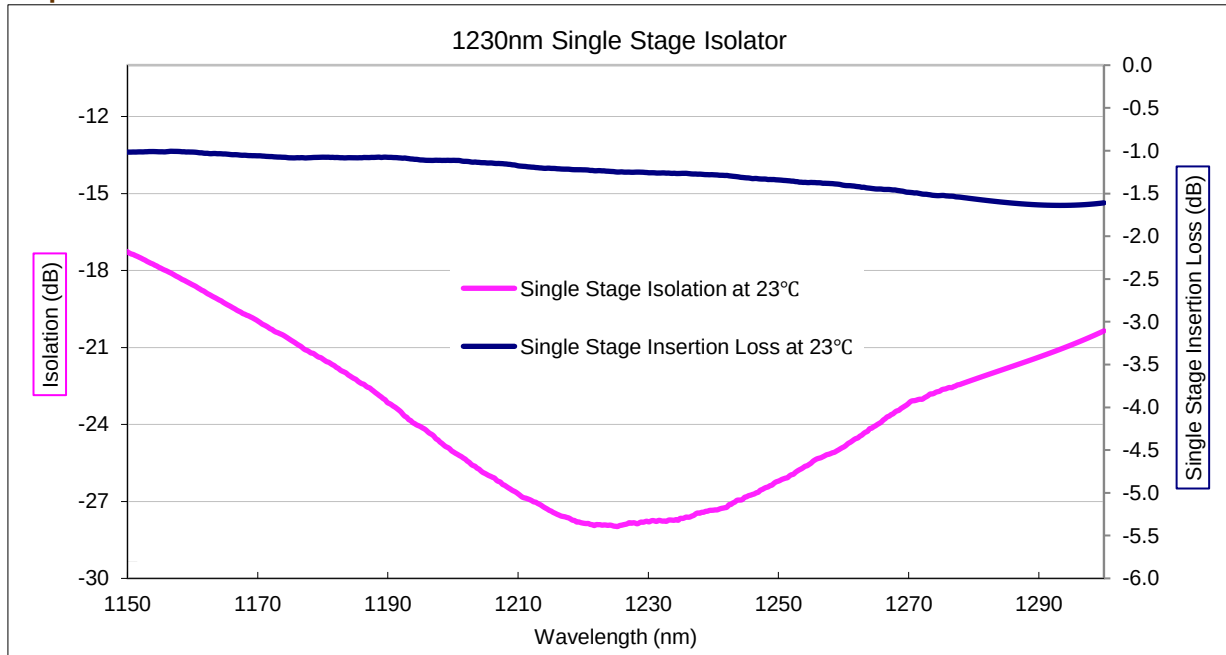


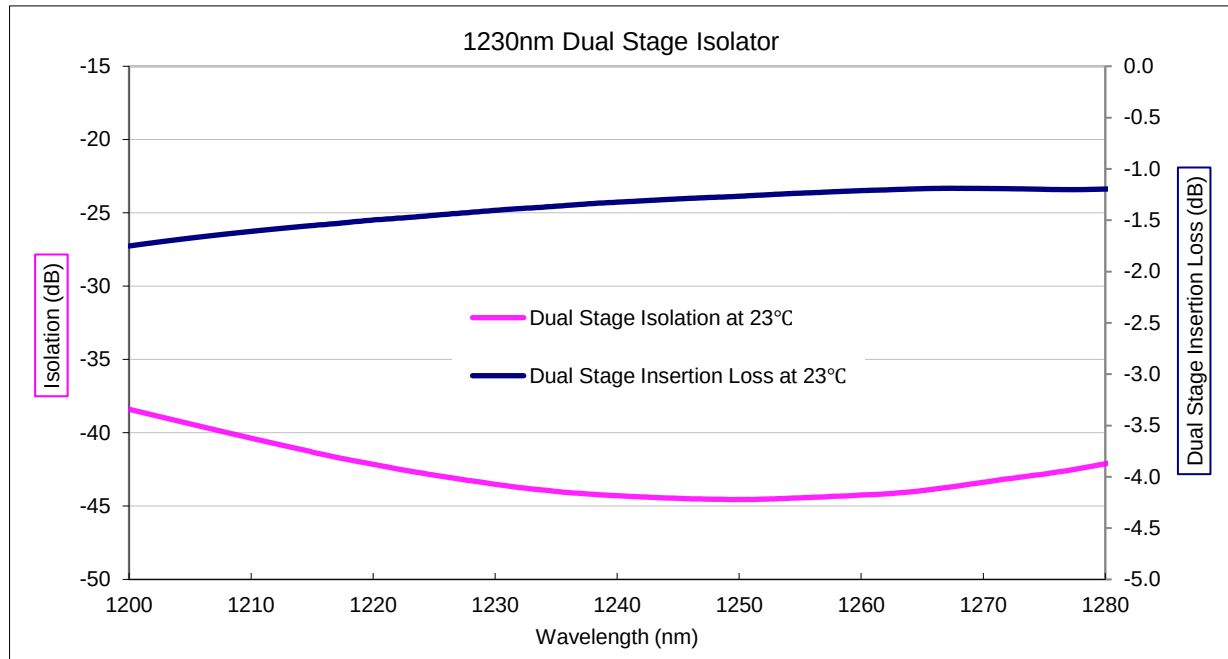
### Specifications

| Parameters                                                        |                          | Unit | Single Stage    | Dual Stage   |
|-------------------------------------------------------------------|--------------------------|------|-----------------|--------------|
| Center Wavelength                                                 |                          | nm   | 1230            |              |
| Peak isolation                                                    |                          | dB   | 42              | 58           |
| Min Isolation ( $\lambda \pm 15\text{nm}$ , 23°C all sop)         |                          | dB   | 28              | 48           |
| Typ. IL ( $\lambda \pm 20\text{nm}$ , 23°C all sop)               |                          | dB   | 0.35            | 0.40         |
| Insertion Loss ( $\lambda \pm 20\text{nm}$ , -5 ~ +70 °C all sop) |                          | dB   | $\leq 0.50$     | $\leq 0.55$  |
| Polarization Dependent Loss (PDL)                                 | Polarization Insensitive | dB   | $\leq 0.05$     | $\leq 0.10$  |
|                                                                   | Polarization Sensitive   | dB   | $\geq 20$       |              |
| PMD                                                               |                          | ps   | $\leq 0.2$      | $\leq 0.05$  |
| Return Loss (Input / Output) (RL)                                 |                          | dB   | $\geq 60/55$    | $\geq 60/55$ |
| Fiber Type                                                        |                          |      | HI1060, SMF-28e |              |
| Max Power Handling CW                                             |                          | mW   | 500             |              |
| Operating Temperature                                             |                          | °C   | -0 ~ +75        |              |
| Storage Temperature                                               |                          | °C   | -40 ~ +85       |              |

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

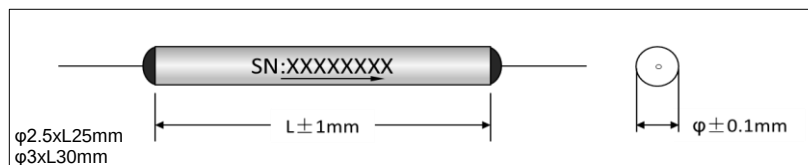
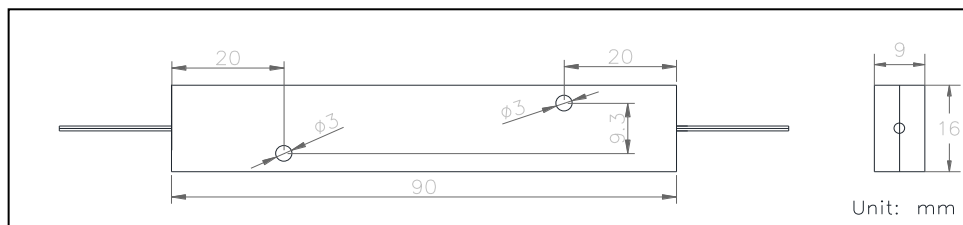
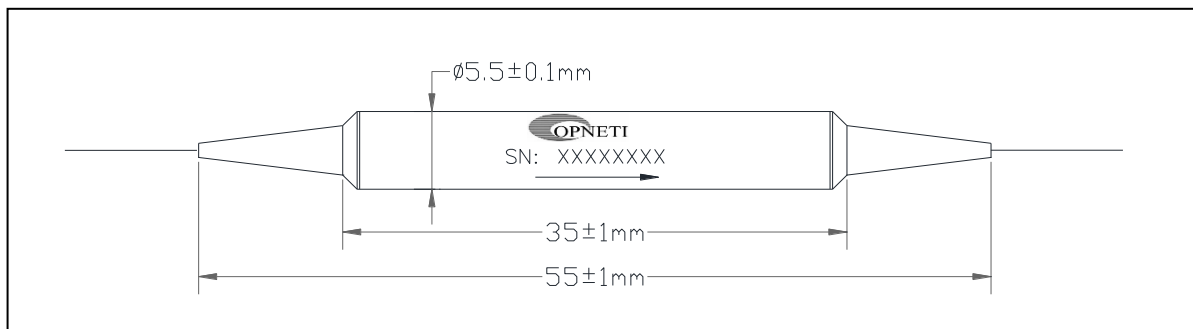
### Typical Spectrum





### 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     | 4=HI1060; 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;         |