

975nm Singlemode Pump Laser Protector

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks



SPECIFICATIONS

| Parameters | Unit | Standard | High Isolation |
|--------------------------------------|--|----------------------------------|---|
| Pump Laser Center Wavelength | nm | 975 | |
| Pump Laser Bandwidth | nm | +/-15 | |
| Blocking Signal Wavelength | Type 6 | nm | 1020~1120 |
| | Type 4 | nm | 1000~1120 |
| | Type 5 | nm | 1500~1620 |
| | Type 2 | nm | 1020~1120&1500~1620 |
| Pump Insertion Loss | Typ. | dB | 0.5 |
| | Max. | dB | 0.8 |
| Backward Signal Attenuation | dB | ≥25 | ≥50 |
| Configuration | D Type | - | 2-port |
| | Y Type | - | 3-port, (Backward Power Guide Out) |
| Return Loss | dB | ≥50 | |
| Fiber Type | Input & Output | - | HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R) |
| | 3 rd Port (Only for Y Type) | - | Same Fiber or 50/125um MM Fiber |
| Fiber Tensile Load | N | 5 | |
| Max. Optical Power (Pump+Signal, CW) | W | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20 | |
| Max. Signal Power (CW) | W | 0.3, 0.5, 1, 2, 3, 5, 10 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | ∅5.5xL35 (≤5W); ∅6.0xL50 (5~10W) |
| | Metal Box | mm | L90xW12xH10 (>10W); L120xW12xH10 (≤10W) |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.5dB higher, RL is 5dB lower.
 3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
 5. Suggest to use Y type if blocked optical power is >1W.
 6. Package size may be different for different optical power, fiber type and configurations.

ORDERING INFORMATION (PN)

| FSP | P | NN | - (N) | (C) | (C) | -P | NN | - (NN) | - (C) | (C) | C | NN | - CC/CCC |
|-------------------|------------------|--------------------|------------------|---------------|-----------------|---------------|------------------------|---------------|--------------|-------------------------|---|----|----------|
| Center Wavelength | Type | Isolation | 3rd Port Fiber | Optical Power | Signal Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type | | | |
| 975=975nm | 4=Type 4 | I=High Isolation | Y= Same Fiber | 03=300mW | 05=500mW | M= Metal Box | E=10/125 SC Fiber | B= Bare fiber | 05=0.5m | N=Without Connector | | | |
| | 5=Type 5 | Blank for Standard | 5=50/125um Fiber | 1= 1W | 1= 1W | Blank for SST | Q=20/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector | | | |
| | 2=Type 2 | | Blank for D Type | 5= 5W | 5= 5W | or >10W | R=25/250 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector | | | |
| | Blank for Type 6 | | | 10=10W | Blank for 300mW | | Blank for HI1060 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector | | | |

