

1030nm High Power Collimating Isolator for Pulse Power

FEATURES

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

APPLICATIONS

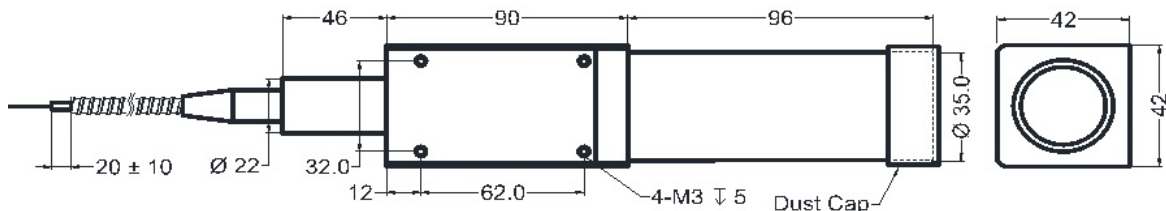
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

SPECIFICATIONS

| Parameter | Unit | High Power Type |
|--------------------------------------|------|---|
| Center Wavelength (λ_c) | nm | 1030 |
| Operating Wavelength Range | nm | +/-10 |
| Peak Isolation (Typ.) | dB | 28 |
| Min. Isolation (λ_c , 23°C) | dB | 20 |
| Typical Insertion Loss | dB | 0.50 |
| Max. Insertion Loss | dB | 0.80 |
| Min. Optical Return Loss | dB | 50 |
| Max. Polarization Dependent Loss | dB | 0.15 |
| Fiber Type | - | 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) |
| Nominal Output Beam Diameter | mm | 0.5, 1, 2, 5 or customer specify |
| Max. Average Optical Power | W | 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100 |
| Max. Peak Power for Pulse | kW | 0.1, 1, 2, 3, 5, 10, 20 |
| Operating Temperature | °C | 0~50 |
| Storage Temperature | °C | -20~75 |

- 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. Package dimension may be different for different beam diameter.

PACKAGE DIMENSION



ORDERING INFORMATION (PN)

| FISO- NNNN | - NN | - H | NN | C | NN | - (C) | C | NN | - CC/CCC |
|-------------------|---------------|---------------|------------|------------------------|--------------|----------------|-------------------------|-----------|-----------------|
| Center Wavelength | Beam Diameter | Average Power | Peak Power | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type | | |
| 1030-1030nm | 05- 0.5mm | 03-300mW | 01-100W | E=10/125um SC Fiber | B=Bare Fiber | 05-0.5m | N=Without Connector | | |
| | 10- 1.0mm | 1-1W | 1- 1kW | Q=20/130um DC Fiber | L=Loose Tube | 10-1.0m | FC/APC=FC/APC Connector | | |
| | 20-2.0mm | 10-10W | 5-5kW | R=25/250um DC Fiber | 2=2mm Cable | 15-1.5m | LC/PC=LC/PC Connector | | |
| | 50- 5.0mm | 100-100W | 20-20kW | Blank for HI1060 Fiber | 3=3mm Cable | 20-2.0m | SC/UPC=SC/UPC Connector | | |