

# 1120nm High Power Collimating PM Isolator

## FEATURES

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

## APPLICATIONS

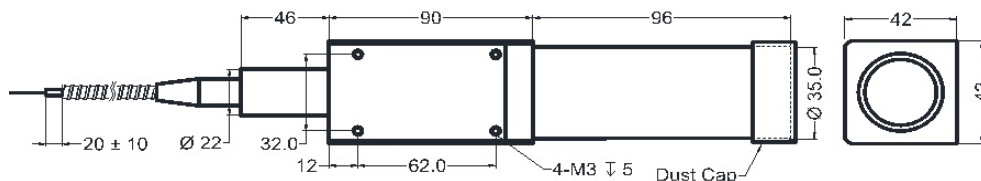
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

## SPECIFICATIONS

| Parameter                         | Unit   | High Power Type  |
|-----------------------------------|--------|--|
| Center Wavelength ( $\lambda_c$ ) | nm     | 1120   |
| Operating Wavelength              | nm     | +/-10  |
| Peak Isolation (Typ.)             | dB     | 25   |
| Min. Isolation (23°C)             | dB     | 20   |
| Typical Insertion Loss            | dB     | 0.50   |
| Max. Insertion Loss               | dB     | 1.0  |
| Min. Optical Return Loss          | dB     | 45   |
| Min. Extinction Ratio             | dB     | 18   |
| Working Mode                      | S Type | -  |
|                                   | F Type | -  |
|                                   |        | Can only work in Slow Axis   |
|                                   |        | Can work both in Slow Axis and Fast Axis   |
| Fiber Type                        | -      | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)<br>10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)<br>20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) |
| Nominal Output Beam Diameter      | mm     | 0.5, 1, 2, 5 or customer specify   |
| Maximum Optical Power (CW)        | W      | 0.5, 1, 2, 5, 10, 15, 20, 30, 50, 80, 100  |
| 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, ER is 2dB Lower, Connector key is aligned to slow axis.
  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)

| FPIS- <b>NNNN</b> | - <b>NN</b>   | <b>C</b>  | - <b>HC</b>   | <b>NN</b>           | -             | <b>C</b>     | <b>C</b>                | <b>NN</b> | - | <b>CC/CCC</b> |
|-------------------|---------------|-----------|---------------|---------------------|---------------|--------------|-------------------------|-----------|---|---------------|
| Center Wavelength | Beam Diameter | Type      | Optical Power | Fiber Type          | Fiber Sleeve  | Fiber Length | Connector Type          |           |   |               |
| 1120=1120nm       | 05= 0.5mm     | S= S Type | 05=500mW      | 2=PM980 Panda Fiber | B= Bare fiber | 05=0.5m      | N=Without Connector     |           |   |               |
|                   | 10= 1.0mm     | F= F Type | 1= 1W         | E=PM1060L Fiber     | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |           |   |               |
|                   | 20=2.0mm      |           | 20=20W        | Q=20/130 PMDC Fiber | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |           |   |               |
|                   | 50= 5.0mm     |           | 100=100W      | R=25/250 PMDC Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |           |   |               |