

460-690nm Polarization Maintaining Isolator

FEATURES

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

APPLICATIONS

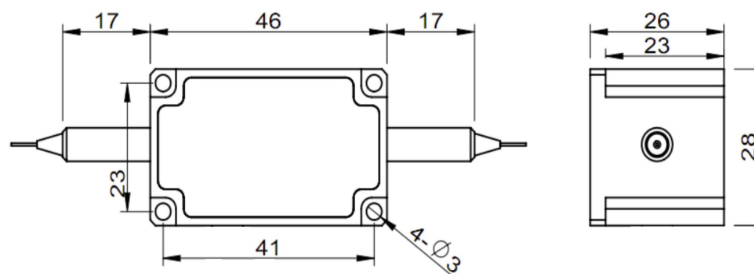
- ▣ Fiber Optic Amplifiers
- ▣ Fiber Optic Instruments
- ▣ WDM Systems
- ▣ Transmitters and Fiber Lasers
- ▣ CATV Networks

SPECIFICATIONS

| Parameter | Unit | Value | |
|--|--------|----------------|---------------------------------|
| Center Wavelength (λ_c) | nm | 460, 488, 532 | 635, 650, 689 |
| Working Wavelength | nm | +/-5 | |
| Peak Isolation (Typ.) | dB | 25 | |
| Isolation (λ_c , 23°C) | dB | ≥20 | |
| Insertion Loss (Typ, λ_c , 23°C) | dB | 1.6 | 1.4 |
| Insertion Loss (Max, λ_c , 23°C) | dB | 2.2 | 1.8 |
| Optical Return Loss (Input/Output) | dB | 45/45 | |
| Extinction Ratio | dB | ≥16 | |
| Working Mode | F Type | - | Both Slow and Fast Axis Working |
| | S Type | - | Can only work in slow axis |
| Fiber Type | - | PM460-HP Fiber | PM630-HP Fiber |
| Fiber Tensile Load | N | 5 | |
| Maximum Optical Power (CW) | mW | 30 | |
| Operating Temperature | °C | 10~45 | |
| Storage Temperature | °C | -10~65 | |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 1.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. Devices for higher optical power or with other type fiber or consigned fiber are also available.
 4. Package size may be different for different optical power and fiber type.

PACKAGE DIMENSION



ORDERING INFORMATION (PN)

| | | | | | | | | | |
|--------------|--------------------------|---|-------------|---|---------------------|--|---------------------|---|-------------------------|
| FPIS- | NNN | - | C | - | C | | NN | - | CC/CCC |
| | <i>Center Wavelength</i> | | <i>Type</i> | | <i>Fiber Sleeve</i> | | <i>Fiber Length</i> | | <i>Connector Type</i> |
| | 488-488nm | | S= S Type | | B= Bare fiber | | 05=0.5m | | N=Without Connector |
| | 532-532nm | | F= F Type | | L= Loose Tube | | 10=1.0m | | FC/APC=FC/APC Connector |
| | 638-638nm | | | | 2= 2mm Cable | | 15=1.5m | | LC/PC=LC/PC Connector |
| | 650-650nm | | | | 3= 3mm Cable | | 20=2.0m | | SC/UPC=SC/UPC Connector |