

960~1000nm High Power Dual Stage Isolator

FEATURES

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

APPLICATIONS

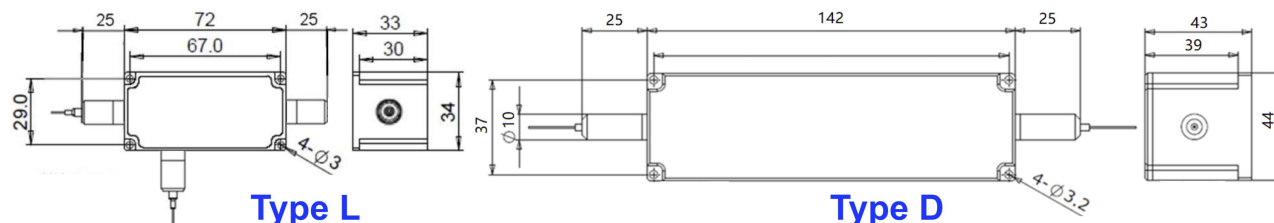
- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks

SPECIFICATIONS

| Parameter | Unit | High Power Type |
|--|-------------------------------|---|
| Center Wavelength (λ_c) | nm | 975, 980, 990, 1000 |
| Operating Wavelength Range | nm | +/-10 |
| Peak Isolation (Typ.) | dB | 40 |
| Min. Isolation (23°C) | dB | 35 |
| Typical Insertion Loss (λ_c , 23°C) | dB | 1.5 |
| Max. Insertion Loss (λ_c , 23°C) | dB | 2.3 |
| Optical Return Loss (Input/Output) | dB | 45/45 |
| Max. Polarization Dependent Loss | dB | 0.20 |
| Configuration | - | Standard: 2-Port; Y Type: 3-Port, Backward Power Guide Out |
| 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 (Y Type) | Same Fiber or 105/125um MM Fiber |
| Fiber Tensile Load | N | 5 |
| Max. Optical Power (CW) | W | 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30 |
| Max. Backward Optical Power (CW) | W | 0.3, 0.5, 1, 2, 3, 5, 10 |
| Operating Temperature | °C | 0~50 |
| Storage Temperature | °C | -20~75 |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.5dB higher, RL is 5dB lower.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - Suggest to use Y type for >20W Optical Power or continuous backward power of $\geq 500\text{mW}$.
 - 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.
 - Package dimensions may be slightly different for different optical power.

PACKAGE DIMENSION



ORDERING INFORMATION (PN)

| FISO-NNNN | -C | (C) | -HP NN | -(NN) | -(C) | C | NN | -CC/CCC |
|-------------------|----------|----------------------------|---------------|-----------------|------------------------|---------------|--------------|-------------------------|
| Center Wavelength | Type | 3 rd Port Fiber | Optical Power | Backward Power | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 980~980nm | L-Type L | Y= Same Fiber | 1~1W | 0.5~500mW | E=10/125um SC Fiber | B= Bare Fiber | 0.5~1.0m | N=Without Connector |
| 975~975nm | D-Type D | A=105/125um Fiber | 5~5W | 1~1W | Q=20/130um DC Fiber | L= Loose Tube | 10~1.0m | FC/APC=FC/APC Connector |
| 990~990nm | | Blank for Standard | 10~10W | 10~10W | R=25/250um DC Fiber | 2= 2mm Cable | 15~1.5m | LC/PC=LC/PC Connector |
| 1000~1000nm | | | 30~30W | Blank for 300mW | Blank for HI1060 Fiber | 3= 3mm Cable | 20~2.0m | SC/UPC=SC/UPC Connector |

