

2090nm Optical Isolator for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

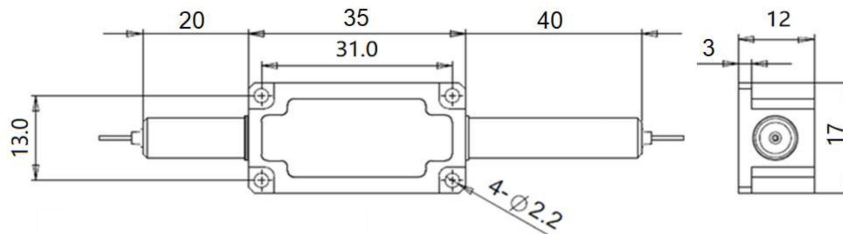


SPECIFICATIONS

| Parameter | Unit | Single Stage | Dual Stage | H Stage |
|------------------------------------|----------------------------|--|----------------|------------|
| Working Wavelength (λ) | nm | 2090 \pm 10 | | |
| Isolation (λ , 23°C) | dB | \geq 16 | \geq 25 | \geq 20 |
| Insertion Loss (λ , 23°C) | dB | \leq 1.6 | \leq 2.2 | \leq 2.2 |
| Optical Return Loss (Input/Output) | dB | 50/45 | 50/45 | 50/45 |
| PDL (23°C) | dB | \leq 0.2 | | |
| Fiber Type | - | SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber (O) or 25/250um DC Fiber (R) | | |
| Fiber Tensile Load | N | 5 | | |
| Max. Average Optical Power | W | 0.3, 0.5, 1, 2 | | 3, 4, 5 |
| Max. Peak Power for pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 | | |
| Operating Temperature | °C | 0~50 | | |
| Storage Temperature | °C | -20~75 | | |
| Package | Stainless Steel Tube (SST) | mm | ϕ 5.5xL35 | |
| Dimension | Metal Box-M | mm | L120xW12xH10 | |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB 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 size may be different for different power and fiber type.

PACKAGE DIMENSION (H STAGE)



ORDERING INFORMATION (PN)

| Center Wavelength | Stage | Average Power | Peak Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-------------------|-----------------|---------------|------------|---------------|------------------------|---------------|--------------|-------------------------|
| 2090-2090nm | S= Single Stage | 03=300mW | 01=100W | M= Metal Box | V= SM1950 Fiber | B= Bare fiber | 05=0.5m | N= Without Connector |
| | D= Dual Stage | 1= 1W | 1= 1kW | Blank for SST | O=10/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | H= H Stage | 2=2W | 5= 5kW | or >2W Power | R=25/250 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | 5= 5W | 10=10kW | | Blank for SMF-28 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |