

1070nm Tap Isolator Hybrid for Pulse Power

FEATURES

- Low Excess Loss
- Various Splitting Ratio
- Wide Passband
- High Stability and Reliability
- Epoxy Free Optical Path

APPLICATIONS

- Optical Amplifier
- Optical Networks
- Power Monitoring
- Fiber Sensor
- Lab



SPECIFICATIONS

| Parameter | Unit | Single Stage | Dual Stage |
|----------------------------|----------------------------|---|--|
| Center Wavelength | nm | 1070 | |
| Bandwidth | nm | +/-10 | |
| Split Ratio | % | 0.1:99.9, 1:99, 2:98, 5:95, 10:90, 20:80, 30:70, 40:60, 50:50 | |
| Tap Ratio | - | 0.1%, 1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 40%, 50% | |
| Excess Loss | Max. | dB | ≤3.0 |
| Peak Isolation | Typ. | dB | 32 |
| Min. Isolation (23°C) | | dB | ≥28 |
| PDL | | dB | ≤0.15 |
| Tap Position | - | Tap Input Light before Isolator | |
| Optical Return Loss | | dB | ≥50 |
| Fiber Type | Tap Port | - | Same fiber or 105/125um MM Fiber |
| | Thru Port | - | HI1060 Fiber or 10/125um SC Fiber (E) |
| | | | 10/125um DC Fiber (O) or 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R) |
| Fiber Tensile Load | N | 5 | |
| Max. Average Optical Power | mW | 300 | |
| Max. Peak Power for pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -40~85 | |
| Package | Stainless Steel Tube (SST) | mm | (Ø)5.5x35 |
| Dimension | Metal Box | mm | (L)120x(W)12x(H)10 |

- 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.

ORDERING INFORMATION (PN)

| FTIS-NNNN | C | NN | C | -H NN | P NN | -(C) | (C) | C | NN | -CC/CCC |
|-------------|----------------|-------------|-------------------|---------------|------------|---------------|------------------------|---------------|--------------|-------------------------|
| Wavelength | Stage | Split Ratio | Tap Port Fiber | Average Power | Peak Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 1070-1070nm | S=Single Stage | 01=1/99 | Y= Same Fiber | 03=300mW | 01= 100W | M=Metal Box | E=10/125 SC Fiber | B= Bare Fiber | 05=0.5m | N=Without Connector |
| | D=Dual Stage | 10=10/90 | A=105/125um Fiber | | 1=1kW | Blank for SST | Q=20/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | | 30=30/70 | | | 5=5kW | or >10W | R=25/250 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | 50=50/50 | | | 10=10kW | | Blank for HI1060 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |