

## 1030nm PM Tap Isolator Hybrid

### 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   | 1030  |            |
| 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   | ≤4.6  | ≤8.3       |
| Peak Isolation          | Typ.                       | dB   | 25  | 45         |
| Min. Isolation (23°C)   |                            | dB   | ≥20   | ≥40        |
| Extinction Ratio        |                            | dB   | ≥18   |            |
| Working Mode            | S Type                     | -    | Tap is before Isolator, Can only work in Slow Axis            |            |
|                         | F Type                     | -    | Tap is before Isolator, work both in Slow Axis and Fast Axis  |            |
|                         | B Type                     | -    | Tap is after Isolator, Can only work in slow axis             |            |
| Optical Return Loss     |                            | dB   | ≥50   |            |
| Fiber Type              | Tap Port                   | -    | Same fiber, Corr. SM Fiber or 105/125um MM Fiber              |            |
|                         | Thru Port                  | -    | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)        |            |
|                         |                            |      | 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)              |            |
|                         |                            |      | 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)            |            |
| Fiber Tensile Load      |                            | N    | 5   |            |
| Max. Optical Power (CW) |                            | mW   | 50  |            |
| 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, 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; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

### ORDERING INFORMATION (PN)

| FPTI-NNNN   | - C            | C        | NN          | (C)                  | - (C)         | C                   | C             | NN           | -CC/CCC                 |
|-------------|----------------|----------|-------------|----------------------|---------------|---------------------|---------------|--------------|-------------------------|
| Wavelength  | Stage          | Type     | Split Ratio | Tap Port Fiber       | Package       | Fiber Type          | Fiber Sleeve  | Fiber Length | Connector Type          |
| 1030-1030nm | S=Single Stage | S=S Type | 01=1/99     | S=Corr. SM Fiber     | M=Metal Box   | 2=PM980 Panda Fiber | B= Bare Fiber | 05=0.5m      | N=Without Connector     |
|             | D=Dual Stage   | F=F Type | 10=10/90    | A=105/125um Fiber    | Blank for SST | E=PM1060L Fiber     | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|             |                | B=B Type | 30=30/70    | Blank for Same Fiber |               | Q=20/130 PMDC Fiber | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|             |                |          | 50=50/50    |                      |               | R=25/250 PMDC Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |

