# 1030nm PM Filter Coupler 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 | 1x2 Type | | | 2x2 Type | | | |
|---|---|---|---|---|---|---|---|---|---|
| Center Wavelength | | nm | 1030 | | | | | | |
| Bandwidth | | nm | +/-20nm or customer specify | | | | | | |
| Split Ratio | | - | 0.1:99.9 | 1:99 | 2:98 | 5:95 | 10:90 | 40:60 | 50:50 |
| Tap Ratio | | - | 0.1% | 1+/-0.5% | 2+/-0.6% | 5+/-1.0% | 10% | 40% | 50% |
| Excess Loss | Max. | dB | 1.2 | | | 1.4 | | | |
| Uniformity | Max. | dB | 0.6 | | | 0.8 | | | |
| Extinction Ratio | | dB | ≥18 | | | | | | |
| Optical Return Loss | | dB | ≥50 | | | | | | |
| Fiber Type | Tap Port | - | Same Fiber, Corresponding SM Fiber or 105/125um Fiber | | | | | | |
| | Thru Port | - | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)<br>10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W)<br>20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) | | | | | | |
| Work Mode | Standard | - | Can only work in Slow Axis | | | | | | |
| | B Type | - | Can work both in Slow Axis and Fast Axis | | | | | | |
| Fiber Tensile Load | | N | 5 | | | | | | |
| Max. Average Optical Power | | W | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20 | | | | | | |
| 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 Dimension | Stainless Steel Tube (SST) | mm | (Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W) | | | | | | |
| | Metal Box | mm | (L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W) | | | | | | |

**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. 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)

**FPFC-NNNN - NN C N (C) - H NN P NN - (C) C C NN -CC/CCC**

| *Wavelength* | *Split Ratio* | *Tap Port Fiber* | *Type* | *Work Mode* | *Average Power* | *Peak Power* | *Package* | *Fiber Type* | *Fiber Sleeve* | *Fiber Length* | *Connector Type* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1030=1030nm | 001=0.1/99.9 | P=Same Fiber | 1=1x2 | B=B Type | 03=300mW | 01=100W | M=Metal Box | 2=PM980Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| | 05=5/95 | S=Corr. SM Fiber | 2=2x2 | *Blank* for Standard | 1= 1W | 1= 1kW | *Blank* for SST | E=PM1060L Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | 10=10/90 | A=105/125um Fiber | | | 5=5W | 5=5kW | or >10W | Q=20/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | 50=50/50 | | | | 10=10W | 10=10kW | | R=25/250 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |