

## 1x3 PM Filter Splitter Module 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 Window  | Dual Window |
|----------------------------|------|--|-------------|
| Center Wavelength          | nm   | 1310, 1480, 1550, 1590   | 1550&1590   |
| Bandwidth                  | nm   | +/-30nm or customer specify  |             |
| Configuration              | -    | 1x3  |             |
| Split Ratio                | %    | 33.3/33.3/33.3   |             |
| Insertion Loss             | dB   | ≤5.8   | ≤6.1        |
| Uniformity                 | dB   | ≤0.6   | ≤0.8        |
| Extinction Ratio           | dB   | ≥18  |             |
| Optical Return Loss        | dB   | ≥50  |             |
| Working Mode               | -    | Can only work in Slow Axis   |             |
| Fiber Type                 | -    | PM1310/1550 Panda Fiber, 10/125um PMDC Fiber (O)<br>12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)<br>25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G) |             |
| Alignment                  | -    | Slow Axis  |             |
| Fiber Tensile Load         | N    | 5  |             |
| Max. Average Optical Power | W    | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60   |             |
| Max. Peak Power for pulse  | kW   | 0.1, 1, 2, 3, 5, 10, 15, 20  |             |
| Operating Temperature      | °C   | 0~70   |             |
| Storage Temperature        | °C   | -40~85   |             |
| Package Dimension          | mm   | L160x <sup>W</sup> 140x <sup>H</sup> 10  |             |

**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, 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. The devices can only work in slow axis and fast axis is blocked.

5. 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.

6. Package size may be different for different optical power fiber type and configurations.

### ORDERING INFORMATION (PN)

**FPFM- NNNN - 1X3 - H NN P NN - C C NN -CC/CCC**

| Wavelength     | Average Power | Peak Power | Fiber Type          | Fiber Sleeve  | Fiber Length | Connector Type          |
|----------------|---------------|------------|---------------------|---------------|--------------|-------------------------|
| 1550-1550nm    | 03-300mW      | 01-100W    | 2-PM1310/1550 Fiber | B- Bare Fiber | 05-0.5m      | N-Without Connector     |
| 1590-1590nm    | 1-1W          | 1-1kW      | 0-10/125 PMDC Fiber | L- Loose Tube | 10-1.0m      | FC/APC=FC/APC Connector |
| 1310-1310nm    | 5-5W          | 5-5kW      | T-12/130 PMDC Fiber | 2- 2mm Cable  | 15-1.5m      | LC/PC=LC/PC Connector   |
| CL=1550&1590nm | 10-10W        | 10-10kW    | R-25/250 PMDC Fiber | 3- 3mm Cable  | 20-2.0m      | SC/UPC=SC/UPC Connector |

