

## Polarization Maintaining Fused Coupler (1x2,2x2)

525nm, 630nm, 780nm, 850nm, 980nm

| Features  | Applications  |
|---|---|
| <ul style="list-style-type: none"> <li>Low Insertion Loss</li> <li>High Return Loss</li> <li>High Extinction Ratio</li> </ul> | <ul style="list-style-type: none"> <li>Fiber Amplifier</li> <li>Power Monitoring</li> <li>Fiber Optical Instrument</li> </ul> |

### Specifications

| Parameters                 | Unit | Values                           |      |              |              |              |       |       |       |
|----------------------------|------|----------------------------------|------|--------------|--------------|--------------|-------|-------|-------|
| Type                       | /    | 1x2 or 2x2                       |      |              |              |              |       |       |       |
| Center Wavelength          | nm   | 525                              | 630  | 780          | 850          | 980          |       |       |       |
| Operating Wavelength Range | nm   | ±10                              | ±10  | ±15          | ±15          | ±20          |       |       |       |
| Max. Excess Loss           | dB   | 1.2                              | 0.6  | 0.6          | 0.6          | 0.5          |       |       |       |
| Tap Coupling Ratio         | %    | 1±0.5%, 5±1.0%, 10±2.0%, and 50% |      |              |              |              |       |       |       |
| Insertion Loss             | dB   | IL related to Coupling Ratio     |      |              |              |              |       |       |       |
| Extinction Ratio           | dB   | 1x2:≥20 ; 2x2:≥18                |      |              |              |              |       |       |       |
| Return Loss                | dB   | ≥55                              |      |              |              |              |       |       |       |
| Max Power Handling (CW)    | W    | 0.1                              | 0.1  | 0.5, 1, or 3 | 0.5, 1, or 3 | 0.5, 1, or 3 |       |       |       |
| Tensile Load               | N    | ≤5                               |      |              |              |              |       |       |       |
| Operating Temperature      | °C   | -5~+75                           |      |              |              |              |       |       |       |
| Storage Temperature        | °C   | -40~+85                          |      |              |              |              |       |       |       |
| Package Dimension          | mm   | φ3x54mm or φ3x60mm               |      |              |              |              |       |       |       |
| Coupling Ratio Tolerance   | %    | 1/99                             | 2/98 | 5/95         | 10/90        | 20/80        | 30/70 | 40/60 | 50/50 |
|                            |      | ±0.5                             | ±0.6 | ±1.0         | ±1.5         | ±2.0         | ±2.5  | ±3.0  | ±3.5  |

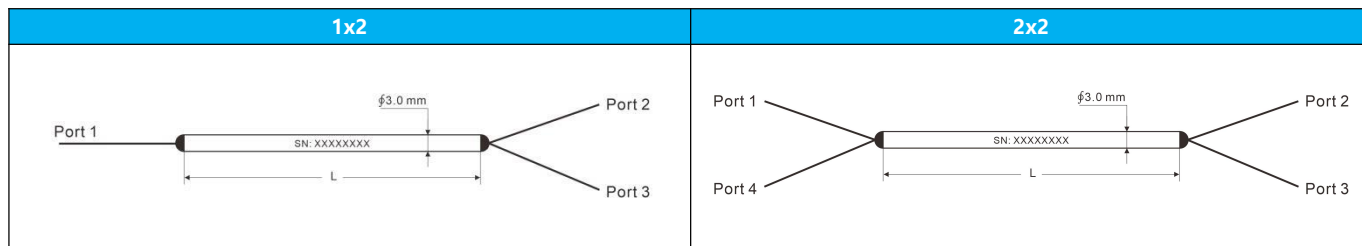
Note: 1. the PM fused coupler is both axis working, no axis can be blocked; default test extinction ratio is on the slow axis.

Above specifications are for device without connector, If with connector, IL will be 0.3dB higher, return loss will be reduce 5dB and Extinction Ratio will reduce 2dB.

2. For >10W high power applications, we will use heat sink package

3. If there is pulse application, please be sure to inform us of pulse energy and peak power.

### Dimensions



### Ordering Information PMFBTC-XXXX-XX-XX-X-XX-XX-XX-XX-XX

|                      |  |
|----------------------|--|
| ①Wavelength:         | 525=525nm; 630=630nm; 780=780nm; 850=850nm; 980=980nm; S=Specify     |
| ②Configuration Type: | 12=1x2, 22=2x2   |
| ③Coupling Ratio:     | 50=50/50; 40=40/60; 30=30/70; 20=20/80; 10=10/90; 01=1/99; S=Specify |
| ④Fiber Type:         | PM460-HP; PM630-HP; PM780; PM980; S=Specify                          |
| ⑤Power Handling:     | 0L=0.5W; 01=1W; 02=2W  |
| ⑥Package Dimensions: | S2=3.0x54mm; S3=3.0x60mm; S=Specify                                  |
| ⑦Pigtail Type:       | 00=bare fiber; 09=900um loose tube                                   |
| ⑧Fiber Length:       | 08=0.8m; 10=1m; S=Specify  |
| ⑨Connector Type:     | FA=FC/APC; FP=FC/UPC; SA=SC/APC; SP=SC/UPC; S=Specify                |