

808nm 1x2 2x2 PM Fiber Fused Coupler

808nm 1x2, 2x2 Polarization Maintaining (PM) Fused Coupler is built with fused biconical taper (FBT) technology, it can be used in split the optical signal power into two parts with even or various coupling ratio and keep the polarization maintaining, it's widely applied in fiber optic sensor, fiber amplifier system and fiber optic diffraction field.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Laser
Optical Diffraction System

Features:

Low Excess Loss
Low Insertion Loss
High Extinction Ratio
High Reliability



Specification:

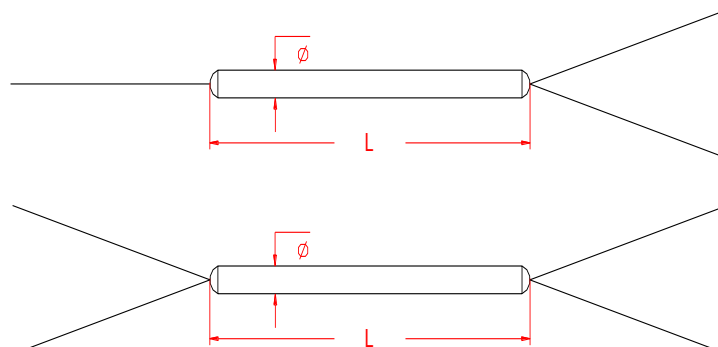
| Parameter | | Symbol | Value | Unit |
|-------------------------|-------------------------------------|-----------|-----------------------|--------------------|
| Center Wavelength | | λ | 808 | nm |
| Bandwidth | | BW | ± 15 | nm |
| Max. Excess Loss | | EL | 0.8 | dB |
| Max. Insertion Loss | 50/50 (± 3.5) | IL | 3.6/3.6 | dB |
| | 40/60 (± 2.5) | | 5.2/3.1 | dB |
| | 30/70 (± 2.5) | | 5.8/2.0 | dB |
| | 20/80 (± 2.0) | | 8.0/1.5 | dB |
| | 10/90 (± 1.2) | | 11.6/1.2 | dB |
| | 5/95 (± 0.8) | | 14.8/0.8 | dB |
| | 3/97 (± 0.7) | | 17.0/0.5 | dB |
| | 2/98 (± 0.6) | | 18.4/0.4 | dB |
| Min. Extinction Ratio | For Ratio > 10% Port | ER | 20 | dB |
| | For 5% \leq Ratio \leq 10% Port | | 18 | dB |
| | For Ratio < 5% Port | | 16 | dB |
| Min. Directivity | | | 50 | dB |
| Min. Return Loss | | RL | 50 | dB |
| Fiber Type | | | PM Panda Fiber | - |
| Max. Tensile Load | | | 5 | N |
| Max. Optical Power (CW) | | P | 2 | W |
| Operating Temperature | | T | -40~75 | $^{\circ}\text{C}$ |
| Storage Temperature | | T | -40~85 | $^{\circ}\text{C}$ |
| Package Dimension | | | $\Phi 3.0 \times L54$ | mm |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}\text{C}$.

For devices with connectors, IL will be 0.3dB higher, EL will be 0.2dB higher, ER will be 2dB lower, slow axis is default aligned to the connector key.

If need optical power more than 2W CW, please contact us to confirm. Connectors only 1W (Continue Wavelength) optical power guarantee.

Drawing:



Ordering Information (Part Number):

| PMFUC-<i>WWW-PP-A-RR-J-LL-CC</i> | | | | | | | |
|---|-------------|---------------------|-----------------------|----------------------|---------------------|------------------|-------------|
| WWW | PP | A | RR | J | LL | CC | |
| Wavelength | Port | Working Axis | Coupling Ratio | Fiber Jacket | Fiber Length | Connector | |
| 800 - 800nm | 12 - 1x2 | B - Both Axes | 01 - 1/99 | B - 250um Bare Fiber | 05 - 0.5m | NE - None | |
| 808 - 808nm | 22 - 2x2 | Working | 02 - 2/98 | 9 - 900um Loose Tube | 10 - 1.0m | FA - FC/APC | |
| 810 - 810nm | | S - Slow Axis | 03 - 3/97 | | 15 - 1.5m | FU - FC/UPC | |
| 820 - 820nm | | Working | 05 - 5/95 | | 20 - 2.0m | SA - SC/APC | |
| 830 - 830nm | | F - Fast Axis | 10 - 10/90 | | SS - Specify | | SU - SU/APC |
| 850 - 850nm | | Working | 20 - 20/80 | | | | LA - LC/APC |
| | | | 30 - 30/70 | | | | LU - LC/UPC |
| | | 40 - 40/60 | SS - Specify | | | | |
| | | | 50 - 50/50 | | | | |
| | | | SS - Specify | | | | |