

1310nm 1x2 2x2 MM Fiber Fused Coupler

1310nm 1x2, 2x2 MM Fused Coupler is built with fused biconical taper (FBT) technology, optical signal power can be splitted into two parts with even or various coupling ratio by the FBT Coupler, it's widely applied in fiber optic transmission and fiber optic sensor field.

Application:

Optical Signal Transmission
Fiber Optic Sensor
Testing System
Optical Diffraction System

Features:

Low Excess Loss
High Return Loss
Low Insertion Loss
High Reliability



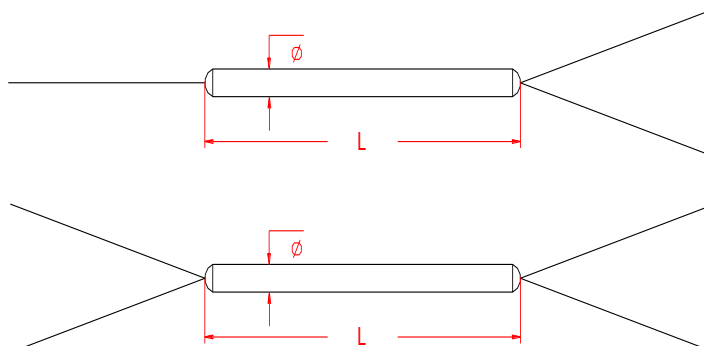
Specification:

| Parameter | Symbol | Value | Unit | |
|-------------------------|-----------|---|----------|----|
| Center Wavelength | λ | 1310 | nm | |
| Bandwidth | BW | ± 40 | nm | |
| Max. Excess Loss | EL | 0.7 | dB | |
| Max. Insertion Loss | IL | 50/50 | 3.7/3.7 | dB |
| | | 40/60 | 4.7/2.7 | dB |
| | | 30/70 | 6.0/2.1 | dB |
| | | 20/80 | 7.8/1.4 | dB |
| | | 10/90 | 11.2/0.9 | dB |
| | | 5/95 | 14.5/0.7 | dB |
| | | 3/97 | 17.5/0.6 | dB |
| | | 2/98 | 18.6/0.6 | dB |
| | | 1/99 | 22.0/0.2 | dB |
| Min. Directivity | | 40 | dB | |
| Fiber Type | | 50/125, 62.5/125 MM fiber | - | |
| Max. Tensile Load | | 5 | N | |
| Max. Optical Power (CW) | P | 2 | W | |
| Operating Temperature | T | -40~75 | °C | |
| Storage Temperature | T | -40~85 | °C | |
| Package Dimension | | $\Phi 3.0 \times L40$ for Bare Fiber $\Phi 3.0 \times L54$ for Bare Fiber or 900um Loose Tube 90x20x10 for 2.0 or 3.0mm Loose Tube 100x80x10 for 2.0 or 3.0mm Loose Tube | mm | |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher. Connectors only 1W (Continue Wavelength) optical power guarantee.

Drawing:



Ordering Information (Part Number):

| MMFUC-WWWW-PP-RR-FF-D-J-LL-CC | | | | | | | |
|--------------------------------------|-------------|-----------------------|-------------------|--------------------------|----------------------|---------------------|------------------|
| WWW | PP | RR | FF | D | J | LL | CC |
| Wavelength | Port | Coupling Ratio | Fiber Type | Package Dimension | Fiber Jacket | Fiber Length | Connector |
| 850 - 850nm | 12 - 1x2 | 01 - 1/99 | M5 - 50/125 | 1 - Φ 3.0x40mm | B - 250um Bare Fiber | 05 - 0.5m | NE - None |
| 1310 - 1310nm | 22 - 2x2 | 02 - 2/98 | M6 - 62.5/125 | 2 - Φ 3.0x54mm | 9 - 900um Loose Tube | 10 - 1.0m | FA - FC/APC |
| 1550 - 1550nm | | 03 - 3/97 | SS - Specify | 3 - 90x20x10mm | 2 - 2.0mm Loose Tube | 15 - 1.5m | FU - FC/UPC |
| SSS - Specify | | 05 - 5/95 | | 4 - 100x80x10mm | 3 - 3.0mm Loose Tube | 20 - 2.0m | SA - SC/APC |
| | | 10 - 10/90 | | | | SS - Specify | SU - SU/APC |
| | | 20 - 20/80 | | | | | LA - LC/APC |
| | | 30 - 30/70 | | | | | LU - LC/UPC |
| | | 40 - 40/60 | | | | | SS - Specify |
| | | 50 - 50/50 | | | | | |
| | | SS - Specify | | | | | |