# 808/1064nm Fused Type PM WDM Coupler (PMWDMC)

## Features

- Low Insertion Loss
- High Isolation & High ER
- Telcordia GR-1221 Compliant
- Both Axis Working

## Application

- PMF Amplifier
- Testing Equipment
- Fiber Laser
- Monitoring in Coherent System

RoHS Reach

## Specifications

| Parameters | Unit | 808/1064 | |
|---|---|---|---|
| Center Wavelength [1] | nm | 808 | 1064 |
| Operating Wavelength Bandwidth | nm | ±5 | ±5 |
| Max Insertion Loss (IL) [2] | dB | 0.8 | 0.6 |
| Min Isolation (IS) [3] | dB | 15 | 17 |
| Polarization Extination Ratio (PER) | dB | 18 | 18 |
| Fiber Type | | PM850 | PM980 |
| Fiber Type at Com Port | | PM980 | |
| Return Loss (RL) [4] | dB | ⩾50 | |
| Cross Talk (CR) [5] | dB | ⩾50 | |
| Max Power Handling CW [6] | W | 1W ( with connector), 4W (spliced) | |
| Operating Temperature | ℃ | -40 ~ +85 | |
| Storage Temperature | ℃ | -40 ~ +85 | |

[1] Center Wavelength can be customized.

[2] Test at room temperature without connectors. With connectors, IL+0.3dB, PER-2dB, RL-5dB.

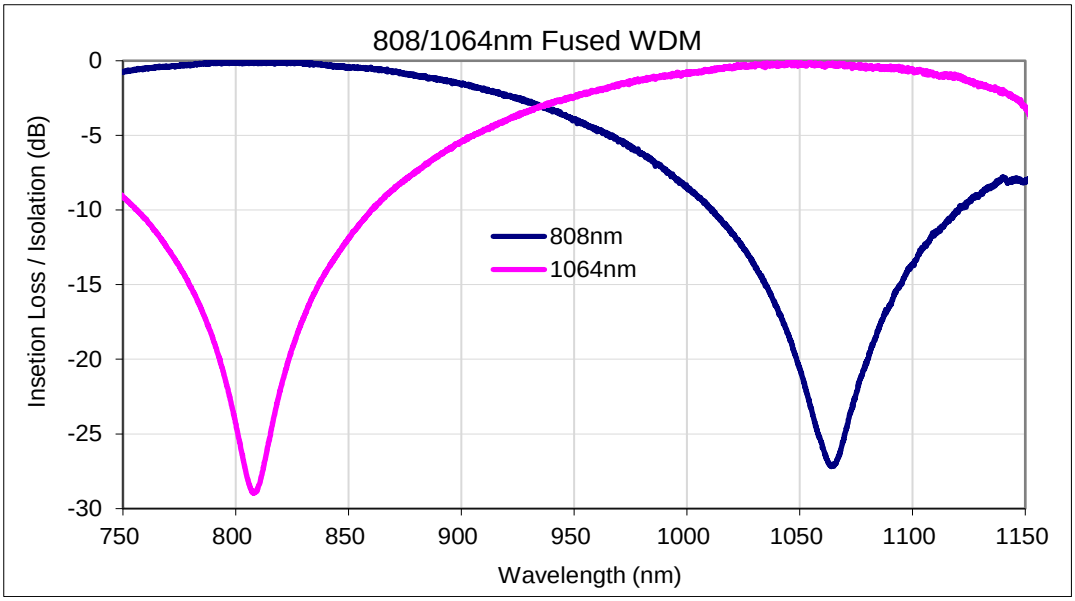
[3] Test at center wavelength.

[4] When test RL, coil all other port fibers 3-5 turns around a 10-30mm diameter loop, this prevents back reflections into test port, which would significantly lower RL.

[5] CR=10 * $\log_{10}$ ($P_{port\ \lambda1} \div P_{port\ \lambda2}$), P=power in mW, test wavelength can be either wavelength of the two,

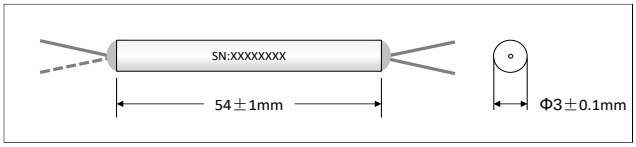
[6] Max power is for total power of longer wavelength+shorter wavelength. Higher power available on request.

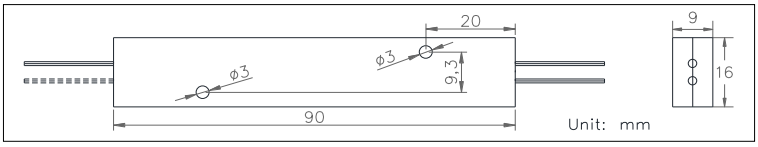
## Typical Spectrum

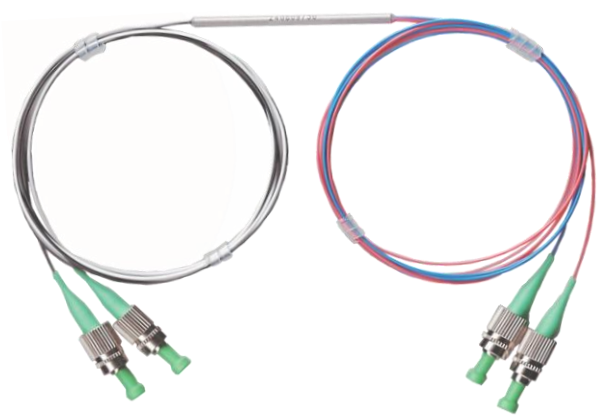


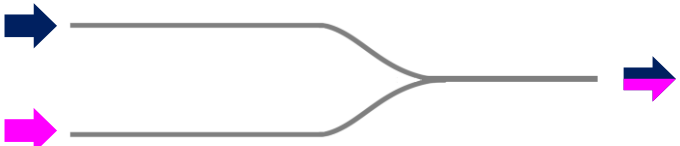
## Package Information

| | | | |
|---|---|---|---|
| Port Configuration | 1x2 or 2x2 | | |
| Fiber Length | 1m, others on request | | |
| Pigtail Type | 250μm Bare Fiber | 900μm Loose Tube | 2mm/3mm Loose Cable |
| Dimensions(mm) | φ3x54 | φ3x54 | 90x16x9 |
| Approx Weight (g) | 30 | 45 | 60 |

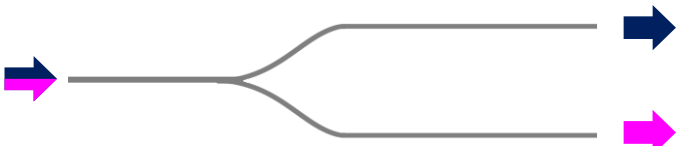




Combine two wavelengths into single fiber



Split two wavelengths from a single fiber

Bidirectional

## Ordering Information

**PMWDMC-** ①①①-②②②②②②②②②-③③③-④④④④④④④④④④④④-⑤-⑥⑥-⑦⑦⑦⑦

| | | |
|---|---|---|
| ① | Port Type | 1x2; 2x2; |
| ② | Wavelength | 808/1064; |
| ③ | Pigtail Type | 250=250μm Fiber; 900=900μm Loose Tube; 2000=2mm Loose Cable; 3000=3mm Loose Cable; |
| ④ | Fiber Type | P85/P98/P98=PM850/PM980/P980 Fiber; |
| ⑤ | Fiber Length | 1=1m; XX=other; |
| ⑥ | Connector | NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others; |
| ⑦ | Package | 3x54; 90x16x9; |