

## 895nm 1x2 2x2 PM Fiber Filter Coupler

895nm 1x2, 2x2 Polarization Maintaining (PM) Filter Coupler is built with thin-film filter technology. optical signal power can be splitted into two parts with even or various coupling ratio by the Filter Coupler, it's widely applied in Quantum Communication and fiber optic sensor field, the high power type is available upon request.

### Application:

Quantum Communication  
Fiber Optic Sensor  
Testing System  
Optical Diffraction System

### Features:

Low Excess Loss  
High Extinction Ratio  
Low Insertion Loss  
High Reliability



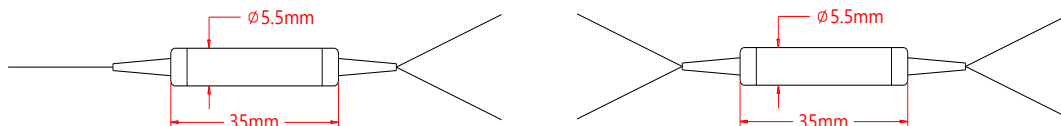
### Specification:

| Parameter               |                       | Symbol    | Value                                                            |     | Unit |
|-------------------------|-----------------------|-----------|------------------------------------------------------------------|-----|------|
| Center Wavelength       |                       | $\lambda$ | 895                                                              |     | nm   |
| Bandwidth               |                       | BW        | $\pm 10$                                                         |     | nm   |
| Configuration           |                       |           | 1x2                                                              | 2x2 | -    |
| Max. Excess Loss        |                       | EL        | 1.0                                                              | 1.2 | dB   |
| Tap Ratio               |                       |           | 1 $\pm$ 0.2, 2 $\pm$ 0.4, 3 $\pm$ 0.7, 5 $\pm$ 1, 10, 20, 30, 50 |     | %    |
| Min. Extinction Ratio   | For Both Axes Working | ER        | 20                                                               | 18  | dB   |
|                         | For Fast Axis Blocked | ER        | 22                                                               | 20  | dB   |
| Min. Directivity        |                       |           | 50                                                               |     | dB   |
| Min. Return Loss        |                       | RL        | 50                                                               |     | dB   |
| Max. Optical Power (CW) |                       | P         | 500                                                              |     | mW   |
| Max. Tensile Load       |                       |           | 5                                                                |     | N    |
| Fiber Type              |                       |           | PM Panda fiber                                                   |     | -    |
| Operating Temperature   |                       | T         | 0~70                                                             |     | °C   |
| Storage Temperature     |                       | T         | -40~85                                                           |     | °C   |
| Package Dimension       |                       |           | $\Phi 5.5 \times L35$                                            |     | 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, ER will be 2dB lower, RL will be 5dB lower.

### Drawing:



### Ordering Information (Part Number):

| PMFIC- <b>WWW</b> - <b>PP</b> - <b>A</b> - <b>RR</b> - <b>J</b> - <b>LL</b> - <b>CC</b> |           |                       |                |                      |              |              |
|-----------------------------------------------------------------------------------------|-----------|-----------------------|----------------|----------------------|--------------|--------------|
| <b>WWW</b>                                                                              | <b>PP</b> | <b>A</b>              | <b>RR</b>      | <b>J</b>             | <b>LL</b>    | <b>CC</b>    |
| Wavelength                                                                              | Port      | Working Axis          | Coupling Ratio | Fiber Jacket         | Fiber Length | Connector    |
| 800 - 800nm                                                                             | 12 - 1x2  | F - Fast axis Blocked | 01 - 1/99      | B - 250um Bare Fiber | 05 - 0.5m    | NE - None    |
| 808 - 808nm                                                                             | 22 - 2x2  | B - Both Axes Working | 02 - 2/98      | 9 - 900um Loose Tube | 10 - 1.0m    | FA - FC/APC  |
| 810 - 810nm                                                                             |           |                       | 03 - 3/97      | 2 - 2mm Loose Tube   | 15 - 1.5m    | FU - FC/UPC  |
| 820 - 820nm                                                                             |           |                       | 05 - 5/95      | 3 - 3mm Loose Tube   | 20 - 2.0m    | SA - SC/APC  |
| 830 - 830nm                                                                             |           |                       | 10 - 10/90     |                      | SS - Specify | SU - SU/APC  |
| 850 - 850nm                                                                             |           |                       | 20 - 20/80     |                      |              | LA - LC/APC  |
| 895 - 895nm                                                                             |           |                       | 30 - 30/70     |                      |              | LU - LC/UPC  |
| SSS - Specify                                                                           |           |                       | 40 - 40/60     |                      |              | SS - Specify |
|                                                                                         |           |                       | 50 - 50/50     |                      |              |              |
|                                                                                         |           |                       | SS - Specify   |                      |              |              |