

## 633nm 1xN 2xN PM Fiber Filter Coupler Module

633nm 1xN 2xN PM Fiber Filter Coupler Module is built with thin-film filter technology. optical signal power can be splitted into N 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  
Fiber Amplifier  
Optical Diffraction System

### Features:

Low Excess Loss  
High Return Loss  
Low Insertion Loss  
High Reliability



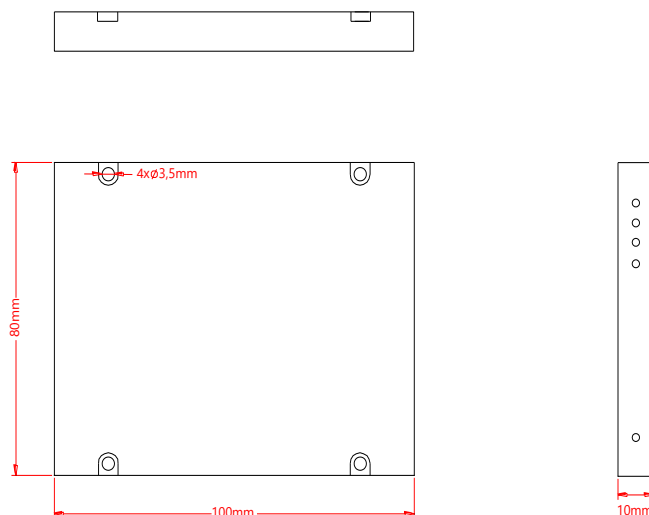
### Specification:

| Parameter                          |                     | Symbol    | Value                  | Unit |
|------------------------------------|---------------------|-----------|------------------------|------|
| Center Wavelength                  |                     | $\lambda$ | 633                    | nm   |
| Bandwidth                          |                     | BW        | $\pm 10$               | nm   |
| Max Insertion Loss                 | for 1x2, 2x2 Even   | IL        | 3.8                    | dB   |
|                                    | for 1x4, 2x4 Even   |           | 7.8                    | dB   |
|                                    | for 1x8, 2x8 Even   |           | 11.5                   | dB   |
|                                    | for 1x16, 2x16 Even |           | 14.0                   | dB   |
|                                    | for 1x32, 2x32 Even |           | 16.2                   | dB   |
| Min. Polarization Extinction Ratio |                     | ER        | 18                     | dB   |
| Min. Directivity                   |                     |           | 50                     | dB   |
| Min. Return Loss                   |                     | RL        | 50                     | dB   |
| Max. Optical Power (CW)            |                     | P         | 500 or specify         | mW   |
| Max. Tensile Load                  |                     |           | 5                      | N    |
| Fiber Type                         |                     |           | Nufern PM 630-HP fiber | -    |
| Operating Temperature              |                     | T         | -40~75                 | °C   |
| Storage Temperature                |                     | T         | -40~85                 | °C   |
| Package Dimension                  |                     |           | 100x80x10              | 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, EL will be 0.2dB higher, ER will be 2dB lower, slow axis is default aligned to the connector key

### Drawing:



**Ordering Information (Part Number):****PMFICM-WWW-PP-A-RR-J-LL-CC**

| <b>WWW</b>        | <b>PP</b>    | <b>A</b>              | <b>RR</b>             | <b>J</b>             | <b>LL</b>           | <b>CC</b>        |
|-------------------|--------------|-----------------------|-----------------------|----------------------|---------------------|------------------|
| <b>Wavelength</b> | <b>Port</b>  | <b>Working Axis</b>   | <b>Coupling Ratio</b> | <b>Fiber Jacket</b>  | <b>Fiber Length</b> | <b>Connector</b> |
| 633 - 633nm       | 12 - 1x2     | F - Fast Axis Blocked | EV - Even             | B - 250um Bare Fiber | 05 - 0.5m           | NE - None        |
| 635 - 635nm       | 22 - 2x2     | B - Both Axes Working | SS - Specify          | 9 - 900um Loose Tube | 10 - 1.0m           | FA - FC/APC      |
| 637 - 637nm       | 14 - 1x4     |                       |                       | 2 - 2.0mm Loose Tube | 15 - 1.5m           | FU - FC/UPC      |
| 640 - 640nm       | 24 - 2x4     |                       |                       | 3 - 3.0mm Loose Tube | 20 - 2.0m           | SA - SC/APC      |
| 650 - 650nm       | 18 - 1x8     |                       |                       |                      | SS - Specify        | SU - SU/APC      |
| 670 - 670nm       | 28 - 2x8     |                       |                       |                      |                     | LA - LC/APC      |
| 680 - 680nm       | 116 - 1x16   |                       |                       |                      |                     | LU - LC/UPC      |
| SSS - Specify     | 216 - 2x16   |                       |                       |                      |                     | SS - Specify     |
|                   | 132 - 1x32   |                       |                       |                      |                     |                  |
|                   | 232 - 2x32   |                       |                       |                      |                     |                  |
|                   | SS - Specify |                       |                       |                      |                     |                  |