

## 1060nm Fiber Faraday Rotator

1060nm Fiber Faraday Rotator is a fiber component which can change state of polarization (SOP), the output polarization light will rotate 45° or 90° when the input light passes faraday rotator, It's widely used in Fiber Laser, Fiber Amplifier System and Fiber Optic Sensor. High power type up to 20W is available upon request.

### Application:

Fiber Optic Amplifier  
Fiber Optic Sensor  
Fiber Laser  
Lab And Research

### Features:

High Extinction Ratio  
High Power Available  
Low Insertion Loss  
High Reliability



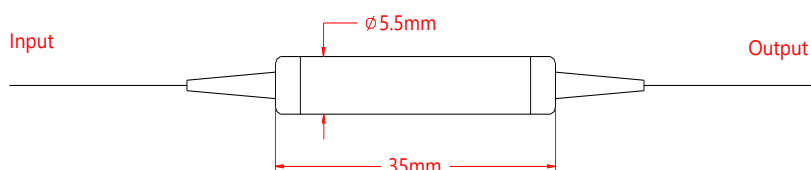
### Specification:

| Parameter                                   | Symbol    | Value                      |            | Unit   |
|---------------------------------------------|-----------|----------------------------|------------|--------|
| Center Wavelength                           | $\lambda$ | 1060                       |            | nm     |
| Bandwidth                                   | BW        | $\pm 5$                    |            | nm     |
| Faraday Rotate Angle                        |           | 45 $\pm$ 3                 | 90 $\pm$ 3 | Degree |
| Typ. Insertion Loss                         | IL        | 1.5                        | 2.2        | dB     |
| Max. Insertion Loss                         | IL        | 1.8                        | 2.5        | dB     |
| Min. Extinction Ratio (for PM fiber output) | ER        | 20                         |            | dB     |
| Max. PDL (for SM fiber output)              | PDL       | 0.1                        |            | dB     |
| Min. Return Loss                            | RL        | 50                         |            | dB     |
| Max. Optical Power (CW)                     | P         | 500 or specify             |            | mW     |
| Max. Tensile Load                           |           | 5                          |            | N      |
| Fiber Type                                  |           | PM Panda fiber or SM fiber |            | -      |
| Operating Temperature                       | T         | -5~70                      |            | °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, RL will be 5dB lower, ER will be 2dB lower, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

FR-**WWWW**-**A**-**FF**-**J**-**LL**-**CC**

| <b>WWWW</b>    | <b>A</b>     | <b>FF</b>                                    | <b>J</b>             | <b>LL</b>    | <b>CC</b>    |
|----------------|--------------|----------------------------------------------|----------------------|--------------|--------------|
| Wavelength     | Rotate Angle | Fiber Type (Input/Output)                    | Fiber Jacket         | Fiber Length | Connector    |
| 1060 - 1060nm  | 4 - 45°      | PP - PM fiber on input and output port       | B - 250um Bare Fiber | 05 - 0.5m    | NE - None    |
| 1064 - 1064nm  | 9 - 90°      | SS - SM fiber on input and output port       | 9 - 900um Loose Tube | 10 - 1.0m    | FA - FC/APC  |
| SSSS - Specify |              | PS - PM fiber on input<br>SM fiber on output | 2 - 2.0mm Loose Tube | 15 - 1.5m    | FU - FC/UPC  |
|                |              | SP - SM fiber on input<br>PM fiber on output | 3 - 3.0mm Loose Tube | 20 - 2.0m    | SA - SC/APC  |
|                |              |                                              |                      | SS - Specify | SU - SU/APC  |
|                |              |                                              |                      |              | LA - LC/APC  |
|                |              |                                              |                      |              | LU - LC/UPC  |
|                |              |                                              |                      |              | SS - Specify |