

# 1064nm Partial Reflective Faraday Mirror

## FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- Low Polarization Sensitivity
- Low Profile Packaging

## APPLICATIONS

- Fiber Optic Amplifiers
- Sensing Systems
- Telecommunication Networks
- CATV Networks
- LAN Systems

## SPECIFICATIONS

| Parameter                             | Unit                       | Value                                 |  |
|---------------------------------------|----------------------------|---------------------------------------|--|
| Center Wavelength (CW)                | nm                         | 1064                                  |  |
| Bandwidth                             | nm                         | +/-5                                  |  |
| Excess Loss                           | dB                         | ≤3.4                                  |  |
| Nominal Reflective Ratio              | %                          | 1±0.5, 2±0.4, 5±1, 10±2, 50±8, 80, 90 |  |
| Faraday Rotation Angle (Transmission) | Deg                        | 22.5, 45, 90                          |  |
| Rotation Angle Tolerance (CW. 23°C)   | Deg                        | ≤+/-3                                 |  |
| Faraday Position                      | Forward Type               | -                                     | Faraday is before the Mirror   |
|                                       | Backward Type              | -                                     | Faraday is after the Mirror  |
| PDL (for SM Fiber Type)               | dB                         | ≤0.15                                 |  |
| Extinction Ratio (for PM Fiber Type)  | dB                         | ≥20                                   |  |
| Fiber Type                            | SM Fiber Type              | -                                     | HI1060 Fiber or 10/125um SC Fiber (E)<br>10/125um DC Fiber (O), 15/130um DC Fiber (W)<br>20/130um DC Fiber (Q) or 25/250um DC Fiber (R)                          |
|                                       | PM Fiber Type              | -                                     | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)<br>10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)<br>20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) |
| Fiber Tensile Load                    | N                          | 5                                     |  |
| Maximum Optical Power (CW)            | mW                         | 150                                   |  |
| Operating Temperature                 | °C                         | 0~50                                  |  |
| Storage Temperature                   | °C                         | -40~85                                |  |
| Package Dimension                     | Stainless Steel Tube (SST) | mm                                    | (Ø)5.5x35  |
|                                       | Metal Box                  | mm                                    | (L)120x(W)12x(H)10   |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

## ORDERING INFORMATION (PN)

|                          |                   |                       |                         |                    |                     |                |                                 |                     |                     |                         |               |
|--------------------------|-------------------|-----------------------|-------------------------|--------------------|---------------------|----------------|---------------------------------|---------------------|---------------------|-------------------------|---------------|
| <b>FFPM-NNNN-NN</b>      | <b>(NN)</b>       | <b>-</b>              | <b>(C)</b>              | <b>C</b>           | <b>C</b>            | <b>-(C)</b>    | <b>(C)</b>                      | <b>C</b>            | <b>NN</b>           | <b>-</b>                | <b>CC/CCC</b> |
| <i>Center Wavelength</i> | <i>Ref. Ratio</i> | <i>Rotation Angle</i> | <i>Faraday Position</i> | <i>Input Fiber</i> | <i>Output Fiber</i> | <i>Package</i> | <i>Fiber Type</i>               | <i>Fiber Sleeve</i> | <i>Fiber Length</i> | <i>Connector Type</i>   |               |
| 1064= 1064nm             | 01=1%             | 90= 90degree          | B=Backward              | S=SM Fiber         | S=SM Fiber          | M=Metal Box    | E=10/125 SC or PM1060L Fiber    | B= Bare fiber       | 05=0.5m             | N=Without Connector     |               |
|                          | 10=10%            | 225=22.5degree        | Blank for Forward       | P=PM Fiber         | P= PM Fiber         | Blank for SST  | Q=20/130 DC or PMDC Fiber       | L= Loose Tube       | 10=1.0m             | FC/APC=FC/APC Connector |               |
|                          | 50=50%            | Blank for 45degree    |                         |                    |                     |                | R=25/250 DC or PMDC Fiber       | 2= 2mm Cable        | 15=1.5m             | LC/PC=LC/PC Connector   |               |
|                          | 80=80%            |                       |                         |                    |                     |                | Blank for HI1060 or PM980 Fiber | 3= 3mm Cable        | 20=2.0m             | SC/UPC=SC/UPC Connector |               |