

# 1053nm Faraday Mirror for Pulse Power

## 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                       | nm                         | 1053   |
| Bandwidth                               | nm                         | +/-5   |
| Insertion Loss (Max.)                   | dB                         | 4.0  |
| Faraday Rotation Angle (Single Pass)    | Deg                        | 22.5, 45, 90   |
| Rotation Angle Tolerance (1064nm. 23°C) | Deg                        | +/-4   |
| PDL (for SM Fiber Type)                 | dB                         | ≤0.20  |
| Extinction Ratio (for PM Fiber Type)    | dB                         | ≥18  |
| 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 Average Power                   | mW                         | 100  |
| Max. Peak Power for Pulse               | kW                         | 0.1, 1, 2, 3, 5, 10, 15, 20  |
| 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.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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>FFDM-NNNN-</b>        | <b>(NN)</b>           | <b>- H</b>           | <b>NN</b>         | <b>P</b>          | <b>NN</b>      | <b>- C</b>                      | <b>(C)</b>          | <b>(C)</b>          | <b>C</b>                | <b>NN</b> | <b>- CC/CCC</b> |
| <i>Center Wavelength</i> | <i>Rotation Angle</i> | <i>Average Power</i> | <i>Peak Power</i> | <i>Fiber Type</i> | <i>Package</i> | <i>Fiber Type</i>               | <i>Fiber Sleeve</i> | <i>Fiber Length</i> | <i>Connector Type</i>   |           |                 |
| 1053=1053nm              | 90= 90degree          | 01=100mW             | 01=100W           | P= PM Fiber       | M= Metal Box   | E=10/125 SC or PM1060L Fiber    | B= Bare Fiber       | 05=0.5m             | N=Without Connector     |           |                 |
|                          | 225=22.5degree        |                      | 1= 1kW            | S=SM Fiber        | Blank for SST  | Q=20/130 DC or PMDC Fiber       | L= Loose Tube       | 10=1.0m             | FC/APC=FC/APC Connector |           |                 |
|                          | Blank for 45degree    |                      | 5=5kW             |                   |                | R=25/250 DC or PMDC Fiber       | 2= 2mm Cable        | 15=1.5m             | LC/PC=LC/PC Connector   |           |                 |
|                          |                       |                      | 10=10kW           |                   |                | Blank for HI1060 or PM980 Fiber | 3= 3mm Cable        | 20=2.0m             | SC/UPC=SC/UPC Connector |           |                 |