

## Faraday Mirror (GK-FM Series)

### ● Description

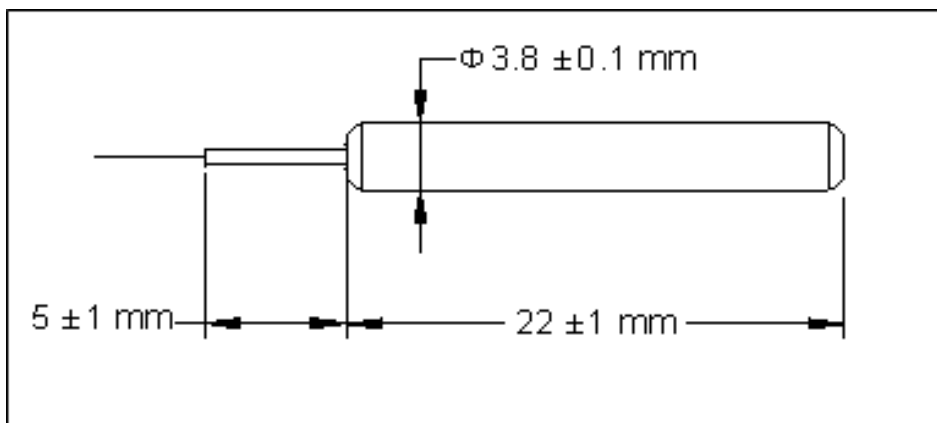
The Faraday Mirror is a passive device that provides 90 degree rotation regarding to the polarization state of the input light. The FM offers excellent performance including the lowest possible insertion loss and enviromental stability. It is used in EDFAs, fiber lasers and fiber instruments to mininize the polarization effect.

### ● Specifications

| Parameter  | Unit   | Value                         |
|--|--------|-------------------------------|
| Center Wavelength                                  | nm     | 1920, 2000, 2070              |
| Operating Wavelength Range                         | nm     | ± 15                          |
| Typ. Insertion Loss                                | dB     | 0.6 0.9 1.2                   |
| Max. Insertion Loss                                | dB     | 0.9 1.2 1.5                   |
| Faraday Rotation Angle (Single Pass)               | degree | 45                            |
| Max. Rotation Angle Tolerance, $\lambda_c$ , 23 °C | degree | ± 2                           |
| Max.PDL  | dB     | 0.1                           |
| Fiber Type   | -      | SMF-28 Fiber or SM 1950 Fiber |
| Max.Optical Power                                  | mW     | 300                           |
| Max. Tensile Load                                  | N      | 5                             |
| Operating Temperature                              | °C     | - 5 to + 70                   |
| Storage Temperature                                | °C     | - 40 to + 85                  |

<sup>1</sup>IL is 0.5 dB higher and RL is 5 dB lower for each of connector added.

### ● Package Dimensions



## ● Ordering Information

GK-FM-①-②-③-④-⑤

### ①: Wavelength

1920 - 1920 nm

2000 - 2000 nm

2070 - 2070 nm

SSSS - Specify

### ②: Fiber Jacket

B - 250  $\mu$ m Bare Fiber

L - 900  $\mu$ m Loose Tube

S - Specify

### ③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

### ④: Fiber Length

1 - 1.0 m

S - Specify

### ⑤: Fiber Type

1 - SMF-28 Fiber

2 - SM 1950 Fiber

S - Specify