

1020-1120nm High Power Faraday Mirror with Phase Delay for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path

APPLICATIONS

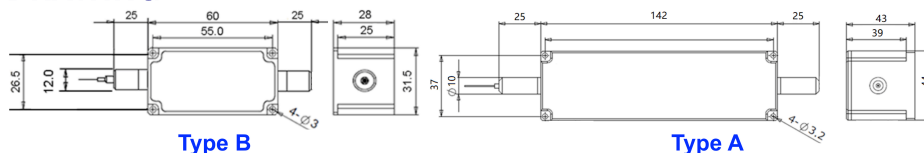
- Fiber Optic Amplifiers
- Sensing Systems
- Research Labs

SPECIFICATIONS

| Parameter | Unit | Value |
|--------------------------------------|---------------|--|
| Center Wavelength (CW) | nm | 1020, 1030, 1040, 1053, 1064 1070, 1080, 1092, 1103, 1120 |
| Bandwidth | nm | +/-10 |
| Insertion Loss | Typ. | dB |
| | Max. | dB |
| Faraday Rotation | A: FR+WP+FR | deg |
| Angle (Single Pass) | B: WP+FR | deg |
| Phase Delay | - | π , $\pi/2$, $\pi/4$ or specify |
| Rotation Angle Tolerance (CW, 23°C) | Deg | +/-5 |
| PDL (for SM Fiber Type) | dB | ≤ 0.20 |
| Extinction Ratio (for PM Fiber Type) | dB | ≥ 18 |
| Fiber Type | SM Fiber Type | - |
| | PM Fiber Type | - |
| Fiber Tensile Load | N | 5 |
| Max. Average Optical Power | W | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50 |
| Max. Peak Power for Pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 |
| Operating Temperature | °C | 0~50 |
| Storage Temperature | °C | -20~75 |

- 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.
 - Forward/backward signals transmit through fast axis/slow axis of a waveplate (WP) induces the phase delay.
 - 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.
 - Package size may be different for difference optical power.

DIMENSION DRAWING



ORDERING INFORMATION (PN)

| FRMD-NNNN | - C | N | C | -H NN | P | NN | -(C) | C | NN | -CC/CCC |
|-------------------|----------------|-------------|------------|---------------|------------|---------------------------------|---------------|--------------|-------------------------|---------|
| Center Wavelength | Rotation Angle | Phase Delay | Type | Average Power | Peak Power | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type | |
| 1030=1030nm | A=90 | 1= π | P=PM Fiber | 03=300mW | 01=100W | E=10/125 SC or PM1060L Fiber | B= Bare Fiber | 05=0.5m | N=Without Connector | |
| 1064=1064nm | B=45 | 2= $\pi/2$ | S=SM Fiber | 1=1W | 1=1kW | Q=20/130 DC or PMDC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector | |
| 1092=1092nm | | 4= $\pi/4$ | | 5=5W | 5=5kW | R=25/250 DC or PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector | |
| 1120=1120nm | | | | 10=10W | 20=20kW | Blank for HI1060 or PM980 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector | |