

## 520nm Fiber Mirror Reflector

520nm Fiber Mirror Reflector is a fiber component which can reflect the input light with planar mirror built inside, the reflection light can be up to 80%. PM and Non-PM version are optional, It's widely used in Quantum Communication, Fiber Laser System and Fiber Optic Sensor. High power type is also available upon request.

### Application:

Quantum Communication  
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                    | $\lambda$ | 520                   | nm   |
| Bandwidth                            | BW        | $\pm 10$              | nm   |
| Typ. Insertion Loss                  | IL        | 0.8                   | dB   |
| Max. Insertion Loss                  | IL        | 1.0                   | dB   |
| Min. Extinction Ratio (for PM fiber) | ER        | 20                    | dB   |
| Max. PDL (for SM fiber)              | PDL       | 0.15                  | dB   |
| Max. Optical Power (CW)              | P         | 500 or specify        | mW   |
| Max. Tensile Load                    |           | 5                     | N    |
| Fiber Type                           |           | PM Panda 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, ER will be 2dB lower, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

| FMR- <b>WWW</b> - <b>FF</b> - <b>J</b> - <b>LL</b> - <b>CC</b> |               |                      |              |              |
|----------------------------------------------------------------|---------------|----------------------|--------------|--------------|
| <b>WWW</b>                                                     | <b>FF</b>     | <b>J</b>             | <b>LL</b>    | <b>CC</b>    |
| Wavelength                                                     | Fiber Type    | Fiber Jacket         | Fiber Length | Connector    |
| 505 - 505nm                                                    | PM - PM fiber | B - 250um Bare Fiber | 05 - 0.5m    | NE - None    |
| 509 - 509nm                                                    | SM - SM fiber | 9 - 900um Loose Tube | 10 - 1.0m    | FA - FC/APC  |
| 520 - 520nm                                                    |               | 2 - 2.0mm Loose Tube | 15 - 1.5m    | FU - FC/UPC  |
| 532 - 532nm                                                    |               | 3 - 3.0mm Loose Tube | 20 - 2.0m    | SA - SC/APC  |
| 550 - 550nm                                                    |               |                      | SS - Specify | SU - SU/APC  |
| 560 - 560nm                                                    |               |                      |              | LA - LC/APC  |
| 570 - 570nm                                                    |               |                      |              | LU - LC/UPC  |
| 582 - 582nm                                                    |               |                      |              | SS - Specify |
| SSS - Specify                                                  |               |                      |              |              |