



## 1550nm PM Fiber Mirror Reflector

### Key Features

- Low Insertion Loss
- Low Polarization Sensitivity
- Optical Path Epoxy Free

PM Fiber Mirror Reflectors are used to reflect the light emerging from a fiber back in the reverse direction. They are used to build fiber interferometers, or with fiber fused splitters to measure back reflection within fiber optic components. They can also be used to measure the sensitivity of sources to back reflection from other devices, by providing reference reflection levels. This is very useful for deriving back reflection specifications for transmitters.

PM Fiber Mirror Reflector consist of a PM fiber optic collimator and a mirror. The design reflectivity of the mirror itself is >99%, but due to the insertion loss of the fiber coupling of the collimator, we distinguish several mirrors with different reflectivity.

### Applications

- Fiber optic Amplifiers
- Fiber optic Testing Systems
- Telecommunications



## For more Info

### Please contact us at:

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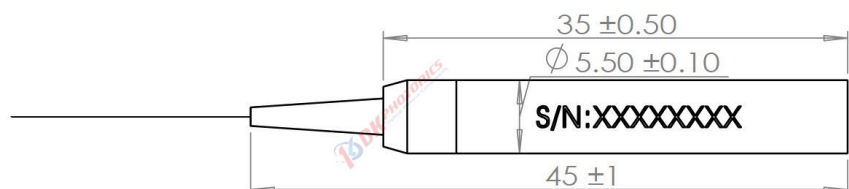
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

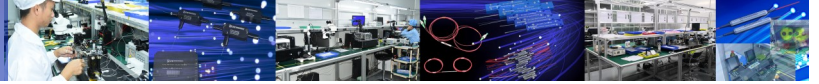
Dahe Road, Longhua Dis.,

Shenzhen, China 518109

### Package Dimensions



\*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.



## 1550nm PM Fiber Mirror Reflector

### Performance Specifications

Parameters	Unit	FMR		
Operating Wavelength	nm	1550		
Operating Bandwidth	nm	±30		
Reflectivity	%	96	93	90
Insertion Loss	dB	≤0.30	≤0.40	≤0.5
PER	dB	≥20		
Optical Power	mW	≤500		
Fiber Type	-	PM1550-XP panda fiber		
Operating Temperature	°C	-20 ~ +70		
Storage Temperature	°C	-40 ~ +85		
Dimension	mm	Φ5.5×L35 or Φ3.0×L12 (only for 1550nm bare fiber)		

1. Above specification are for device without connector, and may change without notice.

2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower. Power transmits through the connector less than 2W. The default connector key is aligned to slow axis.

### Order information P/N: PMFMR-①-②-③-④-⑤-⑥

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail.

①	②	③	④	⑤	⑥
Wavelength	Reflectivity	Package	Pigtails Diameter	Fiber Length	Connector
15:1550nm	96:96%	1: Φ5.5×L35	25:250µm bare fiber	08:0.8m	00: None
XX: Others	93:93%	2: Φ3.0×L12	90:900µm Loose Fiber	10:1.0m	FP: FC/PC
	90:90%	X: Others	XX: Others	XX: Others	FA: FC/APC
					SP: SC/PC
					SA: SC/APC
					XX: Others

**Part Number Example:** PMFMR-15-96-1-90-10-FA

**Description:** 1550nm PM Fiber Mirror Reflectors, Reflectivity>96%, Ø5.5xL35mm package, with 0.9mm OD loose tube, 1.0m length fiber pigtails, FC/APC connectors at all ports.

### Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.