

509nm Fiber Mirror Reflector

509nm 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	λ	509	nm
Bandwidth	BW	± 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- WWW - FF - J - LL - CC				
WWW	FF	J	LL	CC
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				