

458nm TGG Faraday Rotator Mirror

458nm TGG Faraday Rotator Mirror is a fiber component which can change state of polarization (SOP), the polarization light will rotate 45° when the input light passes the faraday rotator, and will rotate another 45° after the mirror turns the light back, the output light will have a polarization state rotated 90°, and orthogonal to the input polarization state. It's widely used in Quantum Communication, Fiber Laser System and Fiber Optic Sensor. Higher power type is 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



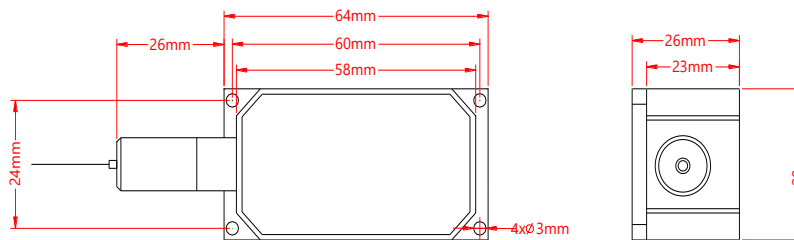
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	458		nm
Bandwidth	BW	± 5		nm
Faraday Rotate Angle (Single Pass)		45 $\pm$ 3	90 $\pm$ 3	Degree
Typ. Insertion Loss	IL	0.5	0.8	dB
Max. Insertion Loss	IL	0.8	1.2	dB
Min. Extinction Ratio (for PM fiber)	ER	18		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				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):

TFRM- WWW - A - FF - J - LL - CC					
WWW	A	FF	J	LL	CC
Wavelength	Rotate Angle	Fiber Type	Fiber Jacket	Fiber Length	Connector
405 - 405nm	4 - 45° (Total 90°) 9 - 90° (Total 180°)	PM - PM fiber	B - 250um Bare Fiber	05 - 0.5m	NE - None
410 - 410nm		SM - SM fiber	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
420 - 420nm				15 - 1.5m	FU - FC/UPC
430 - 430nm				20 - 2.0m	SA - SC/APC
440 - 440nm				SS - Specify	SU - SU/APC
450 - 450nm					LA - LC/APC
458 - 458nm					LU - LC/UPC
SSS - Specify					SS - Specify