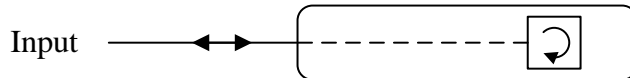


Product: Faraday Mirror

Part Number	Spec Number	Version	Date
FMIRXXXXXXXXXXXX	S034	Rev 01	11/20/2020

1 Function Diagram

The Faraday mirror is a passive component that provides 90° rotation regarding to the polarization state of input light.



2 Specifications

2.1 Environment Conditions

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1.	Operating Temperature	Top	0		70	°C	
2.	Storage Temperature	Tst	-40		85	°C	
3.	Operating Relative Humidity	RHop	5		95	%	[1]
4.	Storage Relative Humidity	RHst	5		95	%	[1]

Note:

[1] Not to exceed industrial standard of 0.024 kg water per kg of dry air under non-condensing conditions.

2.2 Optical Specifications

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
5.	Center Wavelength	λ_c	1310 / 1480 / 1550			nm	
6.	Operating Wavelength Range	λ_{op}	$\lambda_c \pm 15$			nm	
7.	Insertion Loss	IL		0.5	0.7	dB	
8.	Polarization Dependent Loss	PDL			0.1	dB	
9.	Faraday Rotation Angle (Single Pass)	FR		45		°	
10.	Rotation Angle Tolerance @ $\lambda_c 23^\circ\text{C}$	RA	-1		+1	°	
11.	Optical Power	Pop			300	mW	G

Note:

*Above specifications are for device without connector. IL is 0.3 dB higher, RL is 5 dB lower after connector added.

G: Guaranteed by design.

2.3 Mechanical Specifications

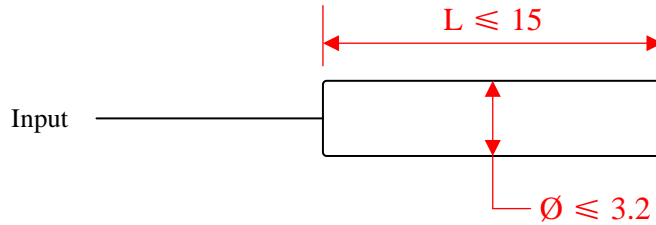
2.3.1 Specifications

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
12.	Fiber Type			By PN			
13.	Fiber Length			By PN		m	
14.	Fiber Jacket			By PN			[2]
15.	Connector Type			By PN			
16.	Package Type			By PN			
17.	Package Dimension		See below for details			mm	
18.	Fiber Color		Natural				

Note:

[2] Available in bare fiber or loose tube. Loose tube is only for steel tube packaging.

2.3.2 Drawing



3 Device Label, Delivery Data

Triple-Stone standard format.

4 RoHS

RoHS compliant.

5 Ordering Information

