

Fiber Optic In-line Polarizer 1050 1053nm

The 1050 1053 nm Fiber Optic In-line Polarizer is a fiber optic component built with PM panda fiber or SM fiber. It allows light to be transmitted in only one polarization (fast axis or slow axis) while blocking the other polarization transmission, it can be used to convert un-polarized light into polarized light with high extinction ratio, and it can also be used to increase the polarization extinction ratio of signals with its excellent polarization properties. OF-LINK offers in-line optical polarizers work at wavelengths from 830nm to 2000nm, and high Power handling is available upon request.



Features

- High Extinction Ratio
- Low Insertion Loss
- High Return Loss
- High Power available on request

Applications

- Fiber Amplifiers & Fiber Lasers
- Eliminating unwanted polarization states
- Polarization/PMD Monitoring
- Improving Polarization Extinction Ratio
- Instrumentation

Performance Specification

Parameter	Value	Unit
Center Wavelength	1050, 1053 or customized	nm
Bandwidth	±20	nm
Typ. Insertion Loss	0.5	dB
Max. Insertion Loss	0.6	dB
Typ. Extinction Ratio	30	dB
Min. Extinction Ratio	28	dB
Min. Return Loss	50	dB
Max. Optical Power (Continuous Wave)	300 (higher power is available upon request)	mW
Max. Tensile Load	5	N
Fiber Type	PM 980 Panda Fiber or HI 1060 Fiber	
Operating Temperature	-5 to +70	°C
Storage Temperature	-40 to +85	°C
Package Dimension	Φ5.5×L35 (mini package available)	mm

Note

* For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.
 * The PM fiber and the connector key are aligned to the slow axis.
 * For high power applications, please contact us to confirm details.

Ordering Information

ILP-AAAA-B-C-DD-EE

AAAA	B	C	DD	EE
Wavelength	Fiber Type (Input/Output)	Fiber Jacket	Fiber Length	Connector
1050 - 1050nm	1 - HI 1060 Fiber (Input)	B - 250um Bare	05 - 0.5m	NE - None
1053 - 1053nm	PM 980 Panda Fiber (Output)	Fiber	08 - 0.8m	FA - FC/APC
SSSS - Specify	2 - PM 980 Panda Fiber (Input)	L - 900um Loose	10 - 1.0m	FP - FC/PC
	PM 980 Panda Fiber (Output)	Tube	15 - 1.5m	SA - SC/APC
	3 - HI 1060 Fiber (Input)		SS - Specify	SP - SC/PC
	HI 1060 Fiber (Output)			LA - LC/APC
				LP - LC/PC
				SS - Specify