

850nm In-line Polarizer SM800



● Product Description

Idealphotonics' in-line polarizer is designed to pass a specified polarized light and block other polarized light. Its function is to convert unpolarized light into linearly polarized light to achieve a high extinction rate. It is also used to improve the extinction rate of instruments such as precision measurement systems, fiber optic sensors, and high-speed test instruments. We have specially designed in-line polarizers for ring gyroscope systems, and its components have been tested under full temperature conditions. In

addition, the mini size is very suitable for our cost-effective fiber optic gyroscope system.

● Product features

High extinction ratio 、 Low insertion loss 、 High return loss 、 Full wavelength optional、 Wide operating bandwidth

● Part Number

MP-ILP-850-28-SA-SA

● Application area

Communication system 、 Test instruments 、 Fiber optic gyroscopes 、 Research、 Fiber optic current transformers (FOCT)、 Fiber optic sensors

● Core parameters

Center Wavelength	Typical Extinction ratio	Output Fiber	Connector
850nm	28dB	SM800	FC/APC

● General Parameters

Parameters

Parameters	Unit	value				
Central wavelength	nm	1310, 1550	1064	1030	980	850
Working range wavelength	nm	±50	±30	±30	±10	±10
Insertion loss at 23℃ (typical)	dB	0.3	0.4	0.4	0.7	0.8
Insertion loss at 23℃ (maximum)	dB	0.5	0.6	0.6	0.9	1
Return loss (minimum)	dB	50	50	50	50	50
Extinction ratio at 23℃ (typical)	dB	30	30	30	28	28
Extinction ratio at 23℃ (minimum)	dB	28	28	28	25	25
Output power (maximum)	mW	300				
Tensile load (maximum)	N	5				
Input fiber type	℃	SM/PM , Single-mode: (SMF-28E / Hi1060 / SM800) polarization-maintaining:(PM1550/PM980/PM850)				
Output fiber type	℃	SM/PM				
Connector type	℃	FC/APC X2				
Operating temperature	℃	-5~+70				
Storage temperature	℃	-40~+85				
The default connector key is aligned with the slow axis;						