



## 850nm In-line Polarizer PM850 Fiber



### ● 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 selection、 Wide operating bandwidth

## ● Part Number

MP-ILP-850-28-PA-PA

## ● 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	PM850	FC/APC

## ● General Parameters

### Parameters

Parameters	Unit	value					
		1310	1550	1064	1030	980	850
Central wavelength	nm	1310	1550	1064	1030	980	850
Working range wavelength	nm	±50		±30	±30	±10	±10
Insertion loss at 23°C (typical)	dB	0.3		0.4	0.4	0.7	0.8
Insertion loss at 23°C	dB	0.5		0.6	0.6	0.9	1



Parameters	Unit	value				
(maximum)						
Return loss (minimum)	dB	50	50	50	50	50
Extinction ratio at 23°C (typical)	dB	30	30	30	28	28
Extinction ratio at 23°C (minimum)	dB	28	28	28	25	25
Output power (maximum)	mW	300				
Tensile load (maximum)	N	5				
Input fiber type	°C	SM/PM , Single-mode: (SMF-28E / Hi1060 / SM800) polarization-maintaining:(PM1550/PM980/ PM850)				
Output fiber type	°C	SM/PM				
Connector type	°C	FC/APC X2				
Operating temperature	°C	-5~+70				
Storage temperature	°C	-40~+85				
The default connector key is aligned with the slow axis;						