

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.

● Part Number

Pol-850-28-PA-PA

● Product features

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

● Application area

Communication systems、 Test instruments、 Fiber optic gyroscopes、 Research、 Fiber optic current transformer (FOCT)、 Fiber optic sensors

Parameters

Parameter	Unit	Value				
Central wavelength	nm	1310, 1550	1064	1030	980	850
Operating wavelength range	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 (Max.)	dB	0.5	0.6	0.6	0.9	1
Return loss (Min.)	dB	50	50	50	50	50
Extinction ratio at 23°C (Typical)	dB	30	30	30	28	28
Extinction ratio at 23°C (Min.)	dB	28	28	28	25	25
Output power (Max.)	mW	300				
Tensile load (Max.)	N	5				
Input fiber type	°C	SM/PM , SM: (SMF-28E / Hi1060 / SM800) PM:(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;						