

1030nm In-line Polarizer PM980 fiber



● Product Description

Idealphotonics' In-line Polarizer is designed to pass a specified polarization and block other polarizations. 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 precision measurement systems, fiber optic sensors, high-speed test instruments, etc. We have designed an in-line polarizer specifically for the ring gyro system, and its components are tested under full temperature conditions. In addition, its mini size is very suitable for our cost-effective fiber optic gyro system

● Part Number

Pol-1030-30-PA-PA

● Product features

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

● Application area

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

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				
Default connector keys are aligned with the slow axis:						