

# 1070nm Polarization Maintaining Isolator

## FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

## APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks



## SPECIFICATIONS

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength ( $\lambda_c$ )	nm	1070	
Bandwidth	nm	+/-10	
Peak Isolation (Typ.)	dB	32	50
Isolation ( $\lambda_c \pm 10\text{nm}$ , 23°C)	dB	$\geq 28$	$\geq 45$
Insertion Loss ( $\lambda_c$ , 23°C)	dB	1.7	2.6
Insertion Loss ( $\lambda_c$ , 0-50°C)	dB	$\leq 2.2$	$\leq 3.6$
Optical Return Loss (Input/Output)	dB	55/50	55/50
Extinction Ratio	dB	$\geq 20$	
Working Mode	S Type	-	Can only work in Slow Axis
	F Type	-	Can work both in Slow Axis and Fast Axis
Fiber Type	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)	
		10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W)	
		20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	( $\varnothing$ )5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  3. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

## ORDERING INFORMATION (PN)

<b>FPIS-</b>	<b>NNNN</b>	<b>-</b>	<b>C</b>	<b>C</b>	<b>-(C)</b>	<b>C</b>	<b>C</b>	<b>NN</b>	<b>-CC/CCC</b>
<i>Center Wavelength</i>			<i>Stage</i>	<i>Type</i>	<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>	<i>Connector Type</i>
1070-1070nm			S= Single Stage D= Dual Stage	S= S Type F= F Type	M= Metal Box Blank for SST	2= PM980 Fiber E= PM1060L Fiber Q= 20/130 PMDC Fiber R= 25/250 PMDC Fiber	B= Bare fiber L= Loose Tube 2= 2mm Cable 3= 3mm Cable	05= 0.5m 10= 1.0m 15= 1.5m 20= 2.0m	N= Without Connector FC/APC= FC/APC Connector LC/PC= LC/PC Connector SC/UPC= SC/UPC Connector