

# 1030nm High Power Collimating PM Isolator

## FEATURES

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

## APPLICATIONS

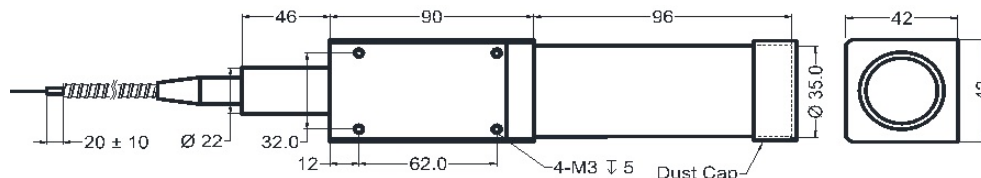
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

## SPECIFICATIONS

Parameter	Unit	High Power Type
Center Wavelength ( $\lambda_c$ )	nm	1030
Operating Wavelength	nm	+/-10
Peak Isolation (Typ.)	dB	28
Min. Isolation (23°C)	dB	20
Typical Insertion Loss	dB	0.50
Max. Insertion Loss	dB	0.80
Min. Optical Return Loss	dB	50
Extinction Ratio	dB	$\geq 18$
Working Mode	S Type	-
	F Type	-
Fiber Type	-	
	Can only work in Slow Axis	
	Can work both in Slow Axis and Fast Axis	
		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)
Nominal Output Beam Diameter	mm	0.5, 1, 2, 5 or customer specify
Maximum Optical Power (CW)	W	0.3, 0.5, 1, 2, 3, 5, 10, 20, 30, 50, 80, 100
Operating Temperature	°C	0~50
Storage Temperature	°C	-20~75

- 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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  4. 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.
  5. Package dimension may be different for different beam diameter.

## PACKAGE DIMENSION



## ORDERING INFORMATION (PN)

FPIS- <b>NNNN</b>	- <b>NN</b>	<b>C</b>	-HC	<b>NN</b>	- <b>C</b>	<b>C</b>	<b>NN</b>	- <b>CC/CCC</b>
Center Wavelength	Beam Diameter	Type		Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1030=1030nm	05= 0.5mm	S= S Type		03=300mW	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	10= 1.0mm	F= F Type		1= 1W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	20=2.0mm			5=5W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	50= 5.0mm			100=100W	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector