

## 1053nm PM Isolator for Pulse Power

### 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	1053	
Bandwidth	nm	+/-10	
Peak Isolation (Typ.)	dB	30	55
Isolation ( $\lambda_c$ +/-10nm, 23°C, All SOP)	dB	≥25	≥45
Typical Insertion Loss ( $\lambda_c$ , 23°C, All SOP)	dB	2.2	3.6
Insertion Loss ( $\lambda_c$ , 0-50°C, All SOP)	dB	≤2.8	≤4.3
Optical Return Loss (Input/Output)	dB	50/50	50/50
Extinction Ratio	dB	≥18	
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), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
Fiber Tensile Load	N	5	
Max. Average Optical Power	mW	200	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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)

FPIS- <b>NNNN</b> - <b>C</b> <b>C</b> -H <b>NN</b> <b>P</b> <b>NN</b> - ( <b>C</b> ) <b>C</b> <b>C</b> <b>NN</b> - <b>CC/CCC</b>									
Center Wavelength	Stage	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1053-1053nm	S- Single Stage	S- S Type	02=200mW	01=100W	M= Metal Box	2=PM980 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	D= Dual Stage	F= F Type		1= 1kW	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
				5=5kW		Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
				10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector