

1053nm Polarization Maintaining Isolator

FEATURES

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

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- **WDM Systems**
- High Reliability and Stability Transmitters and Fiber Lasers
 - CATV Networks



SPECIFICATIONS

Parameter	Unit	Single Stage	Dual Stage			
Center Wavelength ()	vc)	nm	1053			
Bandwidth		nm	+/-10			
Peak Isolation (Typ.)		dB	30 55			
Isolation (λc+/-10nm	, 23°C, All SOP)	dB	≥25	≥45		
Typical Insertion Loss	(λc, 23°C, All SOP)	dB	2.2	3.6		
Insertion Loss (λc, 0-	50°C, All SOP)	dB	≤2.8	≤4.3		
Optical Return Loss (1	Input/Output)	dB	50/50	50/50		
Extinction Ratio		dB	≥20			
Working Mode	S Type	-	Can only work in Slow Axis			
	F Type	-	Can work both in Slow Axis and Fast Axis			
Fiber Type		ı	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			
Maximum Optical Power (CW)		mW	200			
Operating Temperature		°C	0~50			
Storage Temperature		°C	-40~85			
De also de Disco de also de	Stainless Steel Tube (SST)	mm	(Ø)5.5x35			
Package Dimension	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)

FPIS-	- NNNN -	С	С	- (C)	С	С	NN	- CC/CCC
	Center Wavelength	Stage	Туре	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
	1053=1053nm	S= Single Stage	S= S Type	M=Metal Box	2=PM980 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
		D= Dual Stage	F= F Type	<i>Blank</i> for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
					Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
					R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector





