1310~1590nm Polarization Maintaining Isolator for Pulse Power

Features

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

Applications

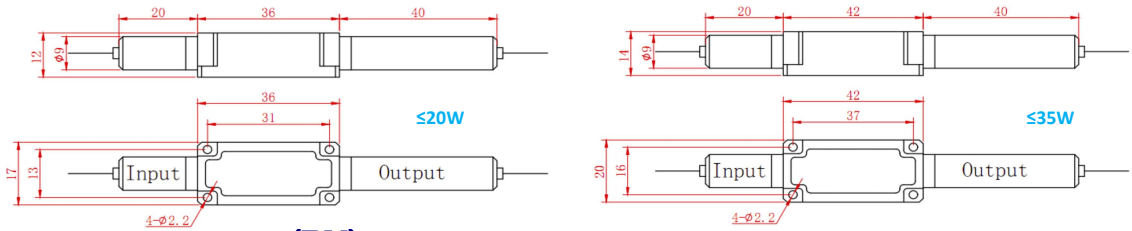
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

Specifications

Parameter		Unit	Single Stage	Dual Stage	H Stage
Center Wavelength (λc)		nm	1310, 1480, 1550, 1590		
Peak Isolation (Typ.)		dB	42	58	35
Isolation (λc+/-15nm, 23°C)		dB	≥28	≥45	≥25
Insertion Loss (λc, 23°C)		dB	≤0.4	≤0.5	≤0.5
Insertion Loss (λc+/-20nm, 0-70°C)		dB	≤0.6	≤0.7	≤0.8
Optical Return Loss (Input/Output)		dB	55/50	55/50	55/50
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		-	PM1550 Panda Fiber or 10/125um PMDC Fiber NA=0.08 (O)		
			10/130um PMDC Fiber NA=0.15 (O2) or 12/130um PMDC Fiber (T)		
			25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)		
Fiber Tensile Load		N	5		
Max. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5 10		15, 20, 30
Max. Peak Power for Pulse		kW	0.1, 1, 2, 3, 5, 10, 20		
Operating Temperature		°C	0~50		
Storage Temperature		°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	Φ5.5xL38 (≤5W), Φ6.0xL50 (>5W)		See Drawing
	Metal Box-M	mm	L120xW12xH10		

Note: 1. Specifications are for device without connectors; Specifications may change without notice.
2. To add connectors, IL is 0.3dB 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 size may be different for different optical power and configurations.

Package Dimension (H Stage)



Ordering Information (PN)

FPIS-NNNN - C C - H NN P NN - (NN) -(C) C C NN -CC/CCC

Center Wavelength	Stage	Type	Average Power	Peak Power	Backward Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1310=1310nm	S=Single Stage	S=S Type	05=500mW	01=100W	05=500mW	M=Metal Box	2=PM1310/1550 Fiber	B=Bare Fiber	05=0.5m	N=Without Connector
1550=1550nm	D=Dual Stage	F=F Type	1=1 Watts	1=1kW	1=1 Watts	Blank for SST	O=10/125 PMDC Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1480=1480nm	H=H Stage		5=5 Watts	5=5kW	5=5 Watts	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1590=1590nm			10=10 Watts	10=10kW	Blank for300mW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector