975nm PM Pump Laser Protector with Isolator for Pulse Power

FEATURES

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

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks

SPECIFICATIONS

Parameters		Unit	Standard	High Signal Isolation
Pump Laser Wavelength		nm	975±15	
Blocking Signal Wavelength	Type 6	nm	1020~1120	
	Type 4	nm	1000~1120	
	Type 5	nm	1500~1620	
	Type 2	nm	1020~1120&1500~1620	
Pump Insertion Loss@23°C		dB	≤1.5	≤1.8
Backward Pump Isolation@23°C		dB	≥22	
Backward Signal Attenuation		dB	≥25	≥45
Configuration	D Type	-	2-port	
	Y Type	-	3-port, (Backward Signal/Pump Guide Out)	
Work Mode	S Type	-	Can only work in Slow Axis	
	F Type	-	Can work both in Slow Axis and Fast Axis	
Return Loss		dB	≥50	
Extinction Ratio		dB	≥18	
Fiber Type	Input&Output	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber	
			10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)	
			20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
	3rd Port (Only for Y Type)	-	Same Fiber, Corr. SM Fiber or 105/125um MM Fiber	
Fiber Tensile Load		N	5	
Max. Average Power (Pump+Signal)		W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20	
Max. Peak Power for Pulse		KW	0.1, 1, 2, 3, 5, 10, 15, 20	
Max. Backward Signal/Pump Average Power		W	0.3, 0.5, 1, 2, 3, 5, 10	
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.

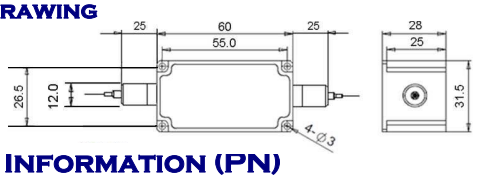
4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

5. Suggest to use Y/X type if blocked optical power is >1W.

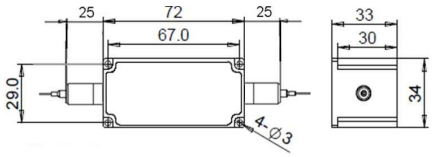
6. Package size may be different for different optical power, fiber type and configurations.

DIMENSION DRAWING

≤10W Power



>10W



ORDERING INFORMATION (PN)

FSRI-NNN-C (N) (C) (C) (C) -H NN P NN -(NN) -C C NN -CC/CCC

CW	Word Mode	Signal Type	Signal Isolation	B.Signal Fiber	B.Pump Guide Out	Average Power	Peak Power	B.Signal/Pump Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
975=975nm	S= S Type	4= Type 4	I=High Isolation	Y= Same Fiber	P= Yes	05=500mW	01=100W	05= 500mW	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	F= F Type	5= Type 5	Blank for Standard	S=Corr. SM Fiber	Blank for	1= 1W	1= 1kW	1= 1W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		2=Type 2		A=105/125um Fiber	D Type or No	5= 5W	5= 5kW	5= 5W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		Blank for Type 6		Blank for D Type		10=10W	20=20kW	Blank for300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

RoHS Compliant