

975nm PM Pump Laser Protector with Isolator

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

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)
	3 rd Port (Only for Y Type)	-	Same Fiber, Corr. SM Fiber or 105/125um MM Fiber
Fiber Tensile Load	N	5	
Max. Optical Power (Pump+Signal, CW)	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20	
Max. Backward Signal/Pump Power (CW)	W	0.3, 0.5, 1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-20~75	

- 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.
 - Suggest to use Y type if blocked optical power is >1W.
 - Package size may be different for different optical power, fiber type and configurations.

DIMENSION DRAWING



ORDERING INFORMATION (PN)

FSRI-NNN-C	(N)	(C)	(C)	(C)	-PNN	-(NN)	-C	C	NN	-CC/CCC	
CW	Word Mode	Signal Type	Signal Isolation	B.Signal Fiber	B.Pump Guide Out	Optical 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	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= 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= 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	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UFC=SC/UFC Connector

