

# 975nm Pump Laser Protector with Isolator

## FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

## APPLICATIONS

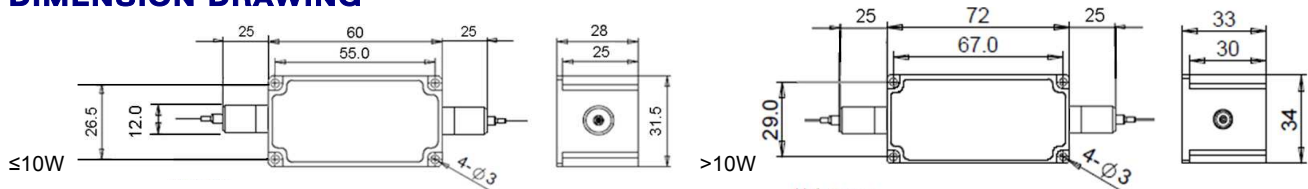
- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

## 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	≥50
Configuration	D Type	-	2-port
	Y/X Type	-	3/4-port, (Backward Signal/Pump Guide)
Fiber Type at 3 <sup>rd</sup> /4 <sup>th</sup> Port (Only for Y/X Type)	-	Same Fiber or 105/125um MM Fiber	
Return Loss	dB	≥50	
PDL	dB	≤0.2	
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E)	
	-	10/125um DC Fiber (O), 15/130um DC Fiber (W)	
	-	20/130um DC Fiber (Q) or 25/250um DC Fiber	
Fiber Tensile Load	N	5	
Max. Optical Power (Pump+Signal, CW)	W	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.
  - 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/X type if blocked optical power is >1W.

## DIMENSION DRAWING



## ORDERING INFORMATION (PN)

FSPI- <b>NN</b>	- ( <b>N</b> )	( <b>C</b> )	<b>C</b>	( <b>C</b> )	- <b>P NN</b>	- ( <b>NN</b> ) ( <b>NN</b> )	- ( <b>C</b> )	<b>C</b>	<b>NN</b>	- <b>CC/CC</b>
Center Wavelength	Signal Type	Signal Isolation	B.Signal Fiber	B.Pump Fiber	Optical Power	B.Signal/ B.Pump Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
975=975nm	4=Type 4	I=High Isolation	Y= Same Fiber	Y= Same Fiber	1= 1W	<b>B.Pump Power</b>	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	5=Type 5	Blank for Standard	A=105/125um Fiber	A=105/125um Fiber	5= 5W	05= 500mW	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	2=Type 2		N=None	Blank for None	10=10W	1= 1W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	Blank for Type 6				20=20W	Blank for 300mW	Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector