

# 750~860nm Pump Laser Protector with Isolator for Pulse Power

## FEATURES

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

## APPLICATIONS

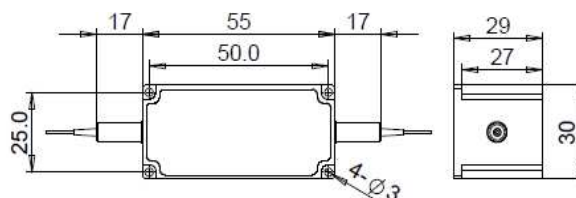
- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

## SPECIFICATIONS

Parameters	Unit	Standard	High Signal Isolation
Pump Laser Wavelength	nm	750±10, 780±10, 793±10, 808±10, 830±10, 850±10	
Blocking Signal Wavelength	Type 5	nm	1500~1620
	Type 2	nm	1020~1120&1500~1620
	Type 8	nm	880~1100
	Type 9	nm	1900~2070
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 Out)
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	-	HI780 Fiber or 780-HP 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 0.7dB higher, RL is 5dB lower.
  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.

## DIMENSION DRAWING



## ORDERING INFORMATION (PN)

FSPI- <b>NN</b>	- <b>N</b>	( <b>C</b> )	<b>C</b>	( <b>C</b> )	-H <b>NN</b>	<b>P NN-(NN)(NN)</b>	-( <b>C</b> )	<b>C</b>	<b>NN</b>	- <b>CC/CCC</b>
Center Wavelength	Signal Type	Signal Isolation	B.Signal Fiber	B.Pump Fiber	Optical Power	Peak Power	B.Signal/ Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
780-780nm	9-Type 9	I=High Isolation	Y= Same Fiber	Y= Same Fiber	05=500mW	01=100W	B.Pump Power 7=780HP Fiber	B= Bare fiber	05=0.5m	N=Without Connector
793-793nm	5-Type 5	Blank for Standard	A=105/125um Fiber	A=105/125um Fiber	1= 1W	1= 1kW	05= 500mW Blank for HI780 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
808- 808nm	2-Type 2		N=None	Blank for None	5= 5W	5= 5kW	1= 1W	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
830- 830nm	8-Type 8				10=10W	10=10kW	Blank for 300mW	3= 3mm Cable	20=2.0m	SC/LC=SC/LC Connector