

## 975nm Singlemode PM Pump Laser Protector

### 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 ER Type
Pump Laser Center Wavelength	nm	975	
Pump Laser Bandwidth	nm	+/-10	
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	dB	≤0.8	≤1.0
Backward Signal Attenuation	Standard	dB	≥25
	High Isolation	dB	≥50
Configuration	D Type	-	2-port
	Y Type	-	3-port, (Backward Power Guide Out)
Return Loss	dB	≥50	
Extinction Ratio	dB	≥18	≥20
Fiber Type	Input & Output	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
	3 <sup>rd</sup> Port (Only for Y Type)	-	Same Fiber, Corr. SM Fiber or 50/125um 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. Signal Power (CW)	W	0.3, 0.5, 1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	<sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)

- 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.
  - High ER type can only work in slow axis; Suggest to use Y type if blocked optical power is >1W.
  - Package size may be different for different optical power, fiber type and configurations.

### ORDERING INFORMATION (PN)

FSPR-NNN	(C)	-(N)	(C)	(C)	-P NN	-(NN)	-(C)	C	C	NN	-CC/CCC
Center Wavelength	Type	Type	Isolation	3rd Port Fiber	Optical Power	Signal Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
975~975nm	R-High ER	4-Type 4	I-High Isolation	Y-Same Fiber	03~300mW	05~500mW	M-Metal Box	2-PM980Fiber	B-Bare fiber	05~0.5m	N-Without Connector
	Blank for Standard	5-Type 5	Blank for Standard	S-Corr. SM Fiber	1-1W	1-1W	Blank for SST	E-PM1060L Fiber	L-Loose Tube	10~1.0m	FC/APC=FC/APC Connector
		2-Type 2		S=50/125um Fiber	5-5W	5-5W	or >10W	Q=20/130 PMDC Fiber	2-2mm Cable	15~1.5m	LC/PC=LC/PC Connector
	Blank for Type			Blank for D Type	10~10W	Blank for 300mW		R=25/250 PMDC Fiber	3-3mm Cable	20~2.0m	SC/UPC=SC/UPC Connector

