

975nm Singlemode PM Pump Laser Protector for Pulse

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	+/-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	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 rd Port (Only for Y Type)	-	Same Fiber, Corr. SM Fiber or 50/125um 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. Signal Average Power	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 ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W)
	Metal Box	mm	^L 90x ^W 12x ^H 10 (>10W); ^L 120x ^W 12x ^H 10 (≤10W)

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

ORDERING INFORMATION (PN)

FSPR-NNN (C) - (N) (C) (C) -H NN PNN - (NN) -(C) C C NN -CC/CCC	Center Wavelength	Type	Type	Isolation	3rd Port Fiber	Average Power	Peak 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	01-100W	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	1-1kW	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	5-5kW	5-5W	or >10W	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	10-10kW	Blank for 300mW		R=25/250 PMDC Fiber	3-3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector	