

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	±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 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:**
- 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)	-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

