

## 1290nm PM BP/Partial Mirror Hybrid for Pulse Power

### 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	
Center Wavelength	nm	1290		
Min. Bandwidth@0.5dB	nm	15.0		
Excess Loss	dB	≤1.3	≤1.5	
Stop Band @25dB	nm	1250~1278 & 1304-1360		
Reflective Ratio	%	1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 80, 90		
Configuration	D Type	2-port		
	Y Type	3-port, (Blocked Wavelength Guide Out)		
Fiber Type at 3 <sup>rd</sup> Port (Only for Y Type)	-	Same Fiber, Corr. SM Fiber or 50/125um MM Fiber		
Optical Return Loss	dB	≥45		
Extinction Ratio	dB	≥18	≥20	
Fiber Type	-	PM1310 Panda Fiber, 10/125um PMDC Fiber (O),		
		12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)		
		25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)		
Fiber Tensile Load	N	5		
Max. Average Optical Power	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		
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)	
	Metal Box	mm	(L)90x(W)18x(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 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - High ER type can only work in slow axis at pass port; Suggest to use Y type if blocked optical power is >1W.
  - 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.

### ORDERING INFORMATION (PN)

Center Wavelength	Bandwidth	Ref. Ratio	Type	3rd Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1290-1290nm	150-15nm	01=1%	R=High ER	Y=Same Fiber	03=300mW	01=100W	M=Metal Box	2=PM1310Fiber	B= Bare fiber	05=0.5m	N=Without Connector
		05=5%	Blank for	S=Corr. SM Fiber	1= 1W	1= 1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		50=50%	Standard	5=50/125um Fiber	5= 5W	5= 5kW	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		90=90%		Blank for D Type	10=10W	10=10kW		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector