

## 1970nm 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	1970	
Min. Bandwidth@0.5dB	nm	6.0	
Excess Loss	dB	≤1.5	≤1.8
Stop Band @25dB	nm	1900-1960 & 1980-2050	
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	-	PM1550 Panda Fiber or PM1950 Fiber (V)	
		10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
Fiber Tensile Load	N	5	
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
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 (5~8W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>8W); (L)120x(W)12x(H)10 (≤8W)

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  3. High ER type can only work in slow axis at pass port; Suggest to use Y type if blocked optical power is >1W.
  4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  5. 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)

FPHR-NNNN-	NN	NN	-(C)	(C)	-H NN	P NN	-(C)	C	C	NN	-CC/CCC												
Center Wavelength	Bandwidth	Ref. Ratio	Type	3rd Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type												
1970	~1970nm	60	~6nm	01	~1%	R	High ER	Y	Same Fiber	03	~300mW	01	~100W	M	~Metal Box	2	~PM1550Fiber	B	~Bare fiber	05	~0.5m	N	~Without Connector
		05	~5%	Blank	for	S	~Corr. SM Fiber	1	~1W	1	~1kW	Blank	for SST	V	~PM1950 Fiber	L	~Loose Tube	10	~1.0m	FC/APC	~FC/APC Connector		
		50	~50%	Standard		5	~50/125um Fiber	5	~5W	5	~5kW	or >8W	O	~10/130 PMDC Fiber	2	~2mm Cable	15	~1.5m	LC/PC	~LC/PC Connector			
		90	~90%	Blank	for D Type	10	~10W	10	~10kW	R	~25/250 PMDC Fiber	3	~3mm Cable	20	~2.0m	SC/UPC	~SC/UPC Connector						