

1550nm High Power PM BP/Partial Mirror Hybrid ($\geq 10\text{nm BW}$)

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	1550	
Min. Bandwidth@0.5dB	nm	10, 15, 20	
Excess Loss	dB	≤ 1.3	≤ 1.5
Stop Band @25dB	10nm Bandwidth	1520~1540 & 1560~1610	
	15nm Bandwidth	1500~1537 & 1563~1610	
	20nm Bandwidth	1500~1533 & 1567~1610	
Reflective Ratio	%	1 \pm 0.6, 2 \pm 0.8, 5 \pm 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 rd 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, 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. Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature	$^{\circ}\text{C}$	0~50	
Storage Temperature	$^{\circ}\text{C}$	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35 ($\leq 5\text{W}$); (\varnothing)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 ($>10\text{W}$); (L)120x(W)12x(H)10 ($\leq 10\text{W}$)

- 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 $>1\text{W}$.
 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	- NNN	NN	-(C)	(C)	-HP NN	-(C)	C	C	NN	-CC/CCC
Center Wavelength	Bandwidth	Ref. Ratio	Type	3rd Port Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1550-1550nm	100-10nm	01-1%	R-High ER	Y-Same Fiber	1-1W	M-Metal Box	2-PM1550Fiber	B-Bare fiber	05-0.5m	N-Without Connector
	150-15nm	05-5%	Blank for	S-Corr. SM Fiber	5-5W	Blank for SST	0-10/125 PMDC Fiber	L-Loose Tube	10-1.0m	FC/APC=FC/APC Connector
	200-20nm	50-50%	Standard	5-50/125um Fiber	10-10W	or >10W	T-12/130 PMDC Fiber	2-2mm Cable	15-1.5m	LC/PC=LC/PC Connector
		90-90%		Blank for D Type	20-20W		G-25/300 PMDC Fiber	3-3mm Cable	20-2.0m	SC/UFC=SC/UFC Connector