

1031nm High Power PM BP/Partial Mirror Hybrid

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



SPECIFICATIONS

Parameters		Unit	Standard	High ER Type
Center Wavelength		nm	1031	
Min. Bandwidth@0.5dB		nm	8.0	
Excess Loss		dB	≤1.3	≤1.5
Stop Wavelength (ASE)		nm	960~1021&1041~1100	
Stop Wavelength (ASE) Isolation	Standard	dB	≥25	
	High Isolation	dB	≥45	
Reflective Ratio		%	1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 80, 90	
BP Position	Forward	-	Bandpass is before the Mirror	
	Backward	-	Bandpass is after the Mirror	
Configuration		-	D: 2-port, Y: 3-port, (Forward/Backward ASE Guide Out)	
Optical Return Loss		dB	≥45	
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)	
	ASE Guide Out (Y/X Type)	-	Same Fiber, Corr. SM Fiber or MM Fiber	
Fiber Tensile Load		N	5	
Max. Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100	
Max. ASE Optical Power (CW)		W	0.3, 0.5, 1, 2, 3, 4, 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	H: ^L 90x ^W 12x ^H 10 (>10W); M: ^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.
 - 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.
 - Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FPHR-NNNN - NN (C) NN (C) -(C) (C) -HPNN -(NN) - (C) C C NN -CC/CCC													
Center Wavelength	Bandwidth	ASE Iso	Ref. Ratio	BP Position	Type	3rd Port Fiber	Optical Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1031-1031nm	80-8nm	I-High	01- 1%	B-Backward	R-High ER	Y-Same Fiber	1- 1W	1- 1W	M-Metal Box	2-PM980Fiber	B- Bare fiber	05-0.5m	N-Without Connector
		Isolation	05-5%	Blank for	Blank for	S-Corr. SM Fiber	5- 5W	5- 5W	H-H Box	E-PM1060L Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
		Blank for	50-50%	Forward	Standard	5-50/125um Fiber	10-10W	10-10W	Blank for SST	Q-20/130 PMDC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
		Standard	90-90%			Blank for D Type	20-20W	Blank for 300mW		R-25/250 PMDC Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector

