1030nm PM BP/Partial Mirror Hybrid for Pulse Power

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	1030	
Min. Bandwidth@0.5dB		nm	1.3, 2.0, 4.0, 6.0, 9.0, 10, 12, 20	
Excess Loss		dB	≤1.3	≤1.5
Stop Wavelength (ASE)	1.3nm Bandwidth	nm	1000~1027&1033~1100	
	2nm Bandwidth	nm	1000~1026&1034~1100	
	4nm Bandwidth	nm	1000~1025&1035~1100	
	6nm Bandwidth	nm	1000~1023&1037~1100	
	9nm Bandwidth	nm	1000~1021&1039~1100	
	10nm Bandwidth	nm	1000~1021&1039~1100	
	12nm Bandwidth	nm	1000~1018&1042~1100	
	20nm Bandwidth	nm	960~1014&1046~1100	
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. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100	
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Max. ASE Average Power		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	Ø5.5xL35 (≤5W); Ø6.0xL50 (5~10W)	
	Metal Box	mm	H: L90xW12xH10 (>10W);M: L120xW12xH10 (≤10W)	

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.5dB 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.

6. Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FPHR-NNNN- NN (C) NN (C) - (C) (C) -H NN P NN - (NN) - (C) C C NN - CC/CCC

Center Wavelength	Bandwidth	ASE Iso	Ref. Ratio	Type	BP Position	3rd Port Fiber	Average Power	Peak Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1030=1030nm	20=2nm	I=High	01=1%	R=High ER	B=Backward	Y=Same Fiber	03=300mW	01=100W	1=1W	M=Metal Box	2=PM980Fiber	B=Bare fiber	05=0.5m	N=Without Connector
	60=6nm	Isolation	05=5%	*Blank* for	*Blank* for	S=Corr. SM Fiber	1=1W	1=1kW	5=5W	H=H Box	E=PM1060L Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	90=9nm	*Blank* for	50=50%	Standard	Forward	5=50/125um Fiber	5=5W	5=5kW	10=10W	*Blank* for SST	Q=20/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	200=20nm	Standard	90=90%			*Blank* for D Type	10=10W	10=10kW	*Blank* for300mW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector