

## 1083nm 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	1083	
Min. Bandwidth@0.5dB	nm	8.0	
Excess Loss	dB	≤1.3	≤1.5
Stop Wavelength (ASE)	nm	1000~1076&1090~1150	
Stop Wavelength (ASE) Isolation	dB	Standard	≥25
		High Isolation	≥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 <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	H: <sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); M: <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 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)

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
1083-1083nm	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

