

1020-1150nm High Power PBC/PBS

FEATURES

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

APPLICATIONS

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



SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength	nm	1020, 1030, 1040, 1053 1064, 1070, 1080	1092, 1103 1120, 1150
Bandwidth	nm	+/-20	
Insertion Loss	(Typ.)	dB	0.6
	(Max.)	dB	0.8
Directivity	dB	≥50	
Optical Return Loss	dB	≥45	
Extinction Ratio (for FPBS)	(Typ.)	dB	22
	(Min.)	dB	18
Fiber Type of Port 1 & Port 2	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)	
	-	10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W)	
	-	20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
Fiber Type of Port 3	S Type	-	Corresponding SM Fiber
	P Type	-	Same Fiber to Port1&2, Slow axis align to Port 1
	Q Type	-	Same Fiber to Port1&2, Slow axis is 45° to Port 1
Direction of Incident Polarization	-	Slow Axis	
Fiber Tensile Load	N	5	
Max. Optical Power (CW)	W	1, 2, 3, 5 10, 15, 20, 25, 30, 40, 50, 60, 80, 100	
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	^L 90x ^W 12x ^H 10 (>10W); ^L 120x ^W 12x ^H 10 (≤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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 4. 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.
 5. Package size may be different for different optical power and fiber type.

ORDERING INFORMATION (PN) FPBC=Polarization Beam Combiner; FPBS=Polarization Beam Splitter.

FPBC FPBS	NNNN <small>Center Wavelength</small>	- C <small>3rd Port Fiber</small>	HP NN <small>Optical Power</small>	- (C) <small>Package</small>	C <small>Fiber Type</small>	C <small>Fiber Sleeve</small>	NN <small>Fiber Length</small>	-CC/CCC <small>Connector Type</small>
	1030=1030nm	S=S Type	1= 1W	M=Metal Box	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	1064=1064nm	P=P Type	5= 5W	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	1092=1092nm	Q=Q Type	10=10W	or >10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	1120=1120nm		20=20W		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

