1020-1120nm High Power PBC/PBS

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Dispersion Compensation
- Light Routing

SPECIFICATIONS

Parameter		Unit	Value	
Center Wavelength		nm	1020, 1030, 1040, 1053, 1064, 1070 1080	1092, 1120
Bandwidth		nm	+/-20	+/-10
Insertion Loss	(Typ.)	dB	0.6	0.8
	(Max.)	dB	0.9	1.1
Directivity		dB	≥50	
Optical Return Loss		dB	≥45	
Extinction Ratio (for FPBS)	(Typ.)	dB	23	
	(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	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (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.

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

FPBC / FPBS - **NNNN** - **C** **HP NN** - **(C)** **C** **C** **NN** **-CC/CCC**

Center Wavelength	3rd Port Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
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