

## 1610~1790nm 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	1625, 1650, 1700, 1730, 1750, 1790	
Bandwidth	nm	+/-10	
Insertion Loss	(Typ.)	dB	0.9
	(Max.)	dB	1.4
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	-	PM1550 Panda Fiber or 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)	
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	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	<sup>L</sup> 90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)

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

2. To add connectors, IL is 0.3dB 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>
	1625-1625nm	S=S Type	1- 1W	M=Metal Box	2=PM1310/1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	1700-1700nm	P=P Type	5- 5W	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	1730-1730nm	Q=Q Type	10=10W	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	1790-1790nm		20=20W		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

