

## 750~850nm 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	760, 780, 793, 808	830, 850
Bandwidth	nm	+/-10	
Insertion Loss	(Typ.)	dB	0.9
	(Max.)	dB	1.5
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	-	PM850 Fiber or PM780-HP Fiber	
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 0.7dB 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	NNN	-	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
	780~780nm		S=S Type	1- 1W	M= Metal Box	2=PM850 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	793~793nm		P=P Type	5- 5W	Blank for SST	7=PM780HP Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	830~830nm		Q=Q Type	10~10W	or >10W		2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	850~850nm			20~20W			3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector