780~850nm Polarization Beam Combiner/Splitter (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	780, 793, 808	830, 850
Bandwidth		nm	+/-10	
Insertion Loss	(Typ.)	dB	0.9	0.8
	(Max.)	dB	1.5	1.3
Directivity		dB	≥50	
Optical Return Loss		dB	≥45	
Extinction Ratio (for FPBS)	(Typ.)	dB	23	
	(Min.)	dB	20	
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)		mW	300	
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 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. 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 - (C) C C NN - CC/CCC

NNNN *Center Wavelength*	C *3rd Port Fiber*	(C) *Package*	C *Fiber Type*	C *Fiber Sleeve*	NN *Fiber Length*	CC/CCC *Connector Type*
780=780nm	S=S Type	M=Metal Box	2=PM850 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
793=793nm	P=P Type	*Blank* for SST	7=PM780HP Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
830=830nm	Q=Q Type			2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
850=850nm				3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector