

Polarization Beam Combiner/Splitter for Pulse Power

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	1310, 1480, 1550, 1590
Bandwidth	nm	+/-40
Insertion Loss	(Typ.)	dB
	(Max.)	dB
Directivity	dB	≥50
Optical Return Loss	dB	≥45
Extinction Ratio (for FPBS)	(Typ.)	dB
	(Min.)	dB
Fiber Type of Port 1 & Port 2	-	PM1310/1550 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	-
	P Type	-
	Q Type	-
Direction of Incident Polarization	-	Slow Axis
Fiber Tensile Load	N	5
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature	°C	0~70
Storage Temperature	°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm
	Metal Box	mm

- 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>	H <small>Average Power</small>	NN <small>Peak Power</small>	P <small>Package</small>	NN <small>Fiber Type</small>	-(C) <small>Fiber Sleeve</small>	C <small>Fiber Length</small>	NN <small>Connector Type</small>
	1310-1310nm	S=S Type	03-300mW	01-100W	M=Metal Box	2-PM1310/1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	1480-1480nm	P=P Type	1= 1W	1= 1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	1550-1550nm	Q=Q Type	5= 5W	5= 5kW	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	1590-1590nm		10=10W	10=10kW		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

