

## 2x2 Polarization Beam Combiner/Splitter for Pulse

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

### APPLICATIONS

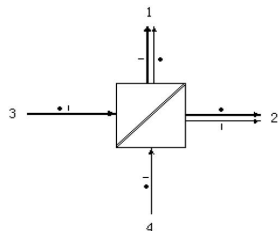
- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Research Labs
- Laser Systems

### SPECIFICATIONS

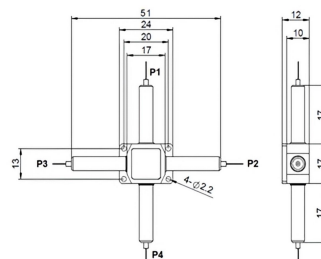
Parameter	Unit	Value	
Center Wavelength	nm	1310, 1480, 1550, 1590	
Bandwidth	nm	+/-20	
Insertion Loss (Port 3 to Port 1/2 at Slow Axis, Port 4 to Port 1/2 at Fast Axis)	(Typ.)	0.8	
	(Max.)	1.2	
Optical Return Loss	dB	≥45	
Extinction Ratio (for FPDS)	(Typ.)	22	
	(Min.)	18	
Fiber Type of Port 1 & Port 2	-	PM1310/1550 Panda Fiber or 10/125um PMSC Fiber (E) 10/125um PMDC Fiber (O), 12/130um PMDC Fiber (T) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)	
Fiber Type of Port 3 & Port 4	S Type	-	Corresponding SM Fiber
	P Type	-	Same Fiber to Port1&2, Slow axis align to Port 1 Slow/Fast axis
	Q Type	-	Same Fiber to Port1&2, Slow axis is 45° to Port 1 Slow/Fast 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	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.
  - Package size may be different for different optical power and fiber type.

### LIGHT ROUTE



### PACKAGE DIMENSION



### ORDERING INFORMATION (PN) FPDC=Polarization Beam Combiner; FPDS=Polarization Beam Splitter.

FPDC FPDS	NNNN	C	C	H NN	P NN	C	C	NN	CC/CCC
	Center Wavelength	3rd Port Fiber	4th Port Fiber	Average Power	Peak Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
	1310-1310nm	S=S Type	S=S Type	03=300mW	01=100W	2=PM1310/1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	1480-1480nm	P=P Type	P=P Type	1= 1W	1= 1kW	E=10/125 PMSC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	1550-1550nm	Q=Q Type	Q=Q Type	5= 5W	5= 5kW	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

