

- Compact High Performance
- High Extinction Ratio
- Low Insertion Loss
- High Directivity

# PM BEAM COMBINER/SPLITTER



The Polarization Beam Combiner/Splitter is a compact high performance lightwave component that combines two orthogonal polarization signals into one output fiber. The most common application is to combine the light of two pump lasers into one

single fiber to double the pump power in EDFA or Raman Amplifier. The device can also be used as a beam splitter.

## SPECIFICATIONS\*

PARAMETERS	GRADE P	GRADE A	UNIT
Center Wavelength ( $\lambda_c$ )	1310, 1480 or 1550		nm
Operating Wavelength Range	$\lambda_c \pm 40$		nm
Typ. Insertion Loss	0.4	0.5	dB
Max. Insertion Loss	0.6	0.7	dB
Min. Extinction Ratio (for splitter only)	22	20	dB
Min. Return Loss	50		dB
Directivity	50		dB
Max. Optical Power (Continuous Wave)	500		mW
Fiber Type	PM Panda fiber for Ports 1 & 2, SMF-28 or PM Panda fiber for Port 3		
Operating Temperature	-5 to +70		°C
Storage Temperature	-40 to +85		°C

\*Note: IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

## ORDER CODES

CODE	WAVELENGTH	GRADE	CONNECTOR TYPE	FIBER JACKET	FIBER TYPE FOR PORT 3	FIBER LENGTH	
F4M-PBC /PBS	31	1310 nm	P Premium	O None	25 250µm Panda Fiber	1 SMF-28	07 0,75m (Std.)
	48	1480 nm	A A Grade	A SC/UPC	9L 900µm Loose Tube	2 Slow axis aligned 45° to Port 1	S Specify
	55	1550 nm		B SC/APC	S Specify	3 Slow axis aligned to Port 1	
	S	Specify		C FC/UPC		S Specify	
				D FC/APC			
				E LC/UPC			
				Q LC/APC			
				S Specify			

ORDER CODE example:

F4M-PBC - 55 - P - 00 - S - S - S