

1064 nm Polarization Beam Combiner/Splitter (DL-PBCS-TT-U-V-W-X-Y-Z)

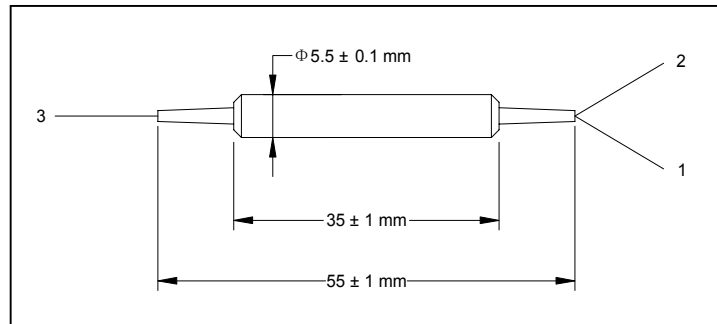
The 1064 nm Polarization Beam Combiner/Splitter is a versatile lightwave component that combines two orthogonal polarization signals into one output fiber. The most basic application is to combine the light of two pump lasers into one single fiber to double the pump power. The typical configuration uses two PM fibers as input and SM fiber as output. It can also be used as a beam splitter.

A. Specifications

Parameter	Grade P	Grade A	Unit
Center Wavelength (λ_c)	1064		nm
Operating Wavelength Range	$\lambda_c \pm 20$		nm
Max. Insertion loss	0.8	0.9	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
Operating Temperature	-5 to +70		°C
Storage Temperature	-40 to +85		°C

*IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

B. Package Dimensions



C. Ordering Information

DL-PBCS-TT-U-V-W-X-Y-Z

TT: Wavelength	U: Connector Type	V: Fiber Type (PM 980)	W: Fiber Type for Port 3
06 - 1064 nm	1 - FC/UPC	B - 250 μ m Panda fiber	1 - HI 1060 fiber
SS - Specify	2 - FC/APC	L - 900 μ m loose tube	2 - Slow axis aligned 45° to Port 1
	3 - SC/UPC	S - Specify	3 - Slow axis aligned to Port 1
	4 - SC/APC		S - Specify
	N - None		
X: Grade	Y: Fiber Length	Z: Type	
P - Premium	Q - 0.75 m	1 - Combiner	
A - A grade	S - Specify	2 - Splitter	