



Polarization Maintaining Beam Splitter/Optical Circulator Hybrid

ACP's Polarization Maintaining Beam Splitter/Optical Circulator (PBSC) combines the functions of a PM beam splitter and a PM circulator. It offers very low insertion loss and very high reliability.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications
Operating Wavelength	1525 ~ 1565 or 1570 ~ 1610
Insertion Loss (1 to 2, 1 to 3, 2 to 4, 3 to 4)(Typ.)*	1.00dB
Insertion Loss (1 to 2, 1 to 3, 2 to 4, 3 to 4)(Max.)*	≤1.2dB
Isolation (2 to 1, 3 to 1, 4 to 2, 4 to 3)(Typ.)*	50dB
Isolation (2 to 1, 3 to 1, 4 to 2, 4 to 3)(Max.)*	≥ 40dB
Extinction Ratio (1 to 2, 1 to 3)(Typ.)*	20dB
Extinction Ratio (1 to 2, 1 to 3)(Min.)*	≥ 18dB
Directivity ((1 to 4 (2 & 3 open) or 2 to 3)	≥ 50dB
Wavelength Dependent Loss	≤ 0.20dB
Return Loss	≥ 50dB
Direction of incident polarization	Slow Axis
Optical Power	≤ 500mW
Tensile Load	≤ 5N
Operating Temperature	0 to +70°C
Storage Temperature	- 40 to +85°C
Fiber Type	SMF-28e or Ultra (Port1 and 4) Panda PM fiber (Port2 and 3)
Color coding (port)	1-Black, 2-Green, 3-Red, 4-Clear
Package Dimensions	A= Standard, Φ5.5xL60mm

Note:

*For port configuration see "MECHANICAL DIMENSIONS".

1. The PM fiber and the connector key are aligned to the slow axis.
 2. The ER is for fiber ≤ 0.75m. Increase fiber length can decrease the ER.
 3. For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower, and extinction loss will be 2dB lower.
- All values referenced are without connector.

FEATURES

- High Isolation
- Low Insertion Loss
- Compact In-Line Package
- Epoxy Free Optical Path

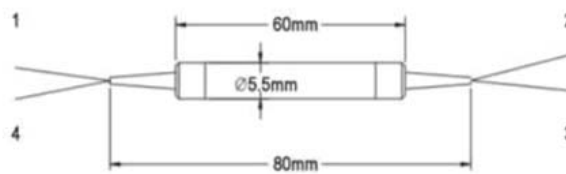
APPLICATION

- EDFAs
- Raman Amplifiers
- Optical Waveguide Modules
- Optical Network Applications

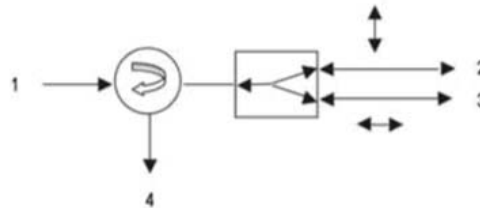
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MECHANICAL DIMENSIONS

A package:



PORT CONFIGURATIONS



ORDERING INFORMATION

Grade	Operating Wavelength	Port	Package	Fiber Type	Pigtail Style	Fiber Length*	In Connector	Out Connector	Working axis
P=P Grade	55=C Band 58=L Band	202=2x2	A= A package	1= Port 1 & 4 SMF-28 (G.652); Port 2 & 3 Panda PM 2= Port 1 & 4 SMF-28 Ultra (G657.A1); Port 2 & 3 Panda PM	1=Bare fiber 2=900um loose tube	07=0.75m 10=1.0m . . .	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC	S=Slow axis F=Fast axis

*Other length is available upon request, However, 900µm loose tube is only up to 2m.