AC Photonics

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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.

All AC Photonics' products are Telcordia qualification tested.

Key Features

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

Applications

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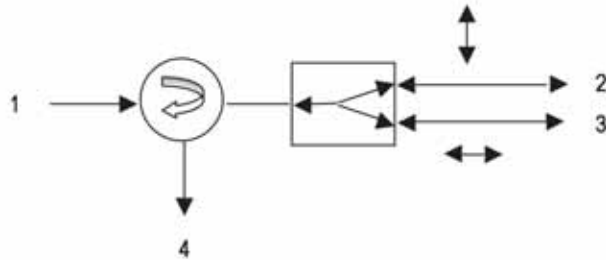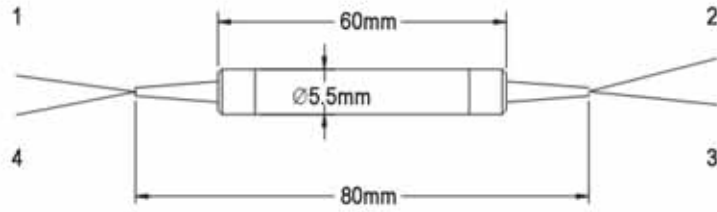- Optical Network Applications

Performance Specifications

Parameter		Specifications
Operating Wavelength Range		1525nm to 1565nm or 1570nm to 1610nm
Insertion Loss (Typ.) 1 to 2, 1 to 3, 2 to 4, or 3 to 4		1.0dB
Insertion Loss (Max.) 1 to 2, 1 to 3, 2 to 4, or 3 to 4		1.20dB
Isolation (Typ.) 2 to 1, 3 to 1, 4 to 2, or 4 to 3		50dB
Isolation (Min.) 2 to 1, 3 to 1, 4 to 2, or 4 to 3		40dB
Extinction Ratio (Typ.) 1 to 2, 1 to 3		20dB
Extinction Ratio (Min.) 1 to 2, 1 to 3		18dB
Directivity 1 to 4 (2 and 3 open) or 2 to 3		50dB
Wavelength Dependent Loss		0.20dB
Return loss		50dB
Optical Power		500mW
Direction of Incident Polarization		Slow axis
Operating Temperature		0 to +70°C
Storage Temperature		-40 to +85°C
Fiber Type	Port 1 and 4	SMF-28
	Port 2 and 3	400um Panda PM fiber
Fiber Length		0.75m, 1.0m; etc.
Color Coding (Port)		1-Black, 2- Green, 3-Red,4-Clear
Package Dimensions		Ø5.5mmxL60mm

NOTE: 1. The PM fiber and the connector key are aligned to the slow axis.

2. The ER is for fiber </= 0.75 meter. 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.

Mechanical Dimensions

Ordering Information

PBSC	☐☐	☐	☐	☐	☐☐	☐
	Wavelength	**Grade**	**Pigtail Style**	**Fiber Length**	**In/Out Connector**	**Working axis**
	15 = C Band 16 = L Band	P = P Grade	1 = Bare Fiber 2 = 900um Jacket	1 = 0.75m 2 = 1.0m S = Specify	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 working B = Both axes working F = Fast axis working