Polarization Maintaining Beam Splitter/Optical Circulator Hybrid

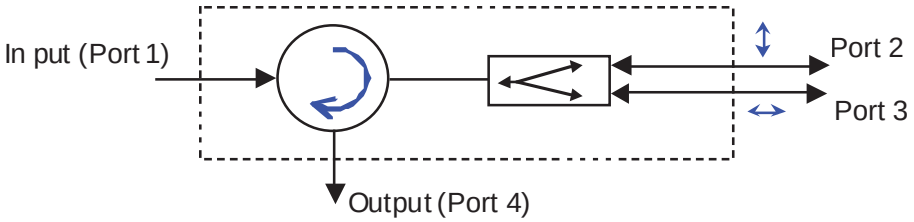
PBOC Series

Product Description

Oplink's Polarization Maintaining Beam Splitter/Optical Circulator (PBOC) hybrid module combines the functionalities of a beam splitter and a circulator while providing polarization control. It is specially designed for optical module or subsystem integration, such as dynamic gain equalizers (DGEs), planar lightwave circuit (PLC) devices, optical waveguide modules and MEMS based modules. The PBOC features low insertion loss, low dispersion and compact packages.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.

Function Diagram



Performance Specification

PBOC Series		Min	Typical	Max	Unit
Operating Wavelength Range (λ_{Op})	C Band		1520 ~ 1570		nm
	L Band		1570 ~ 1610		
Insertion Loss [1] @ λ_{Op}, T_{Op}, SOP	1→2, 1→3, 2→4 or 3→4			0.8	dB
	Total $IL_i \Rightarrow 4$ (with Ports 2 and 3 Connected			1.45	
Isolation @ λ_{Op}, T_{Op}, SOP	2→1, 3→1, 4→2 or 4→3	40			dB
Extinction Ration	1→2, 1→3,	20			dB
Return Loss [1]		50	55		dB
Crosstalk	1→4 (Port 2 and 3 Open)	50			dB
PMD	1→4 (Port 2 and 3 Connected)			0.05	ps
Polarization Alignment of Output Fiber			Slow Axis		dB
Optical Power Handling				500	mW
Operating Temperature Rang (Top)			-5 to +70		°C
Storage Temperature			-40 to +85		°C
Fiber Type	Port 1 and Port 4		SMF-28, 250μm Bare Fiber		
	Port 2 and Port 3		Fujikura Panda, 400μm UV Buffer		
Color Coding			Port 1 : Black, Port 2 : Red Port 3 : Clear, Port 4 : Clear		
Physical Dimensions			(Ø) 5.5 x (L) 62.0		mm

Note: [1] excluding connectors.

Features

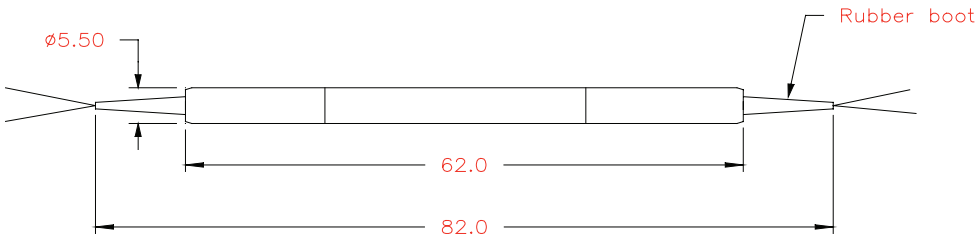
- Compact Package
- Low Insertion Loss
- Low Dispersion
- High Isolation
- Epoxy-free Optical Path

Applications

- DGE
- PLC and MEMS Modules
- Optical Waveguide Modules
- Optical Network Applications

OPLINK *your DESIGN & OMS partner*

Mechanical Drawing / Package Dimensions (dimension in mm)



Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

46335 Landing Pkwy Fremont, CA 94538 Tel: (510) 933-7200 Fax: (510) 933-7300 Email: Sales@Oplink.com • www.oplink.com