Polarization Maintaining Beam Combiner

PMBC Series

Product Description

Oplink's Polarization Maintaining Beam Combiner (PMBC) is based on athermal platform. The technology is a lead-free packaging platform and no epoxy in the optical path. These devices feature super high extinction ratio, very high power handling and low insertion loss. They are designed to work as pump combiners for EDFA, Raman amplifier systems and 40-Gbps, 100-Gbps transmission system. Oplink's patented packaging technology ensures the highest quality and reliability.

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.



Performance Specification

PMBC Series		Specifications			Unit
		Ultra P Grade	P Grade	A Grade	
Wavelength Range			1450 ± 30		nm
			1480 ± 30		
			1550 ± 30		
Insertion Loss		≤ 0.5	≤ 0.5	≤ 0.7	dB
Wavelength Dependent Loss (WDL)			≤ 0.15		dB
Optical Return Loss			≥ 55		dB
Directivity			≥ 45		dB
Extinction Ratio		≥ 23	≥ 20	≥ 18	dB
Direction of Incident Polarization			Slow Axis		
Operting Power Handling			≤ 2000		mW
Operating Temperature			0 to +70		℃
Storage Temperature			-40 to +85		℃
Fiber Type	Input Ports		Fujikura Panda, PM Fiber		
	Output Port		Corning SMF-28		
Physical Dimensions	P1 (with bare fiber)		5.5±0.1 (Φ) x 34.0±1 (L)		mm
	P2 (with900μm loose tube)		5.5±0.1 (Φ) x 40.0±1 (L)		

Note:
** All the parameters are excluding connectors; ER is 3dB lower and after connector added*

Features

- Super High Extinction Ratio
- Low Insertion Loss
- Highly Stablility & Reliability
- Epoxy-Free Optical Path
- Compact Size
- High-Power Handling

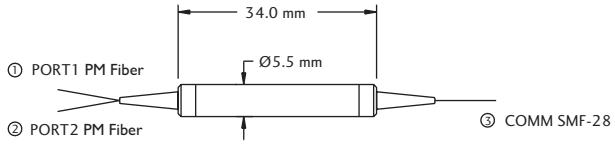
Applications

- EDFA
- Raman Amplifier
- 40-Gbps, 100-Gbps Transmission System
- Laboratory R&D

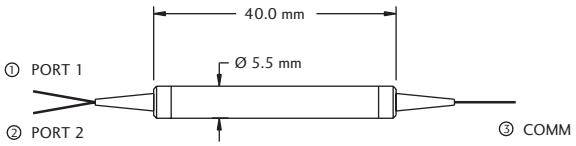
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Mechanical Drawing / Package Dimensions (dimension in mm)

Package 1 : with bare fiber



Package 2 : with 900μm loose tube



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.

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Center Channel Wavelength
1450nm = 1450
1480nm = 1480
1550nm = 1550

Grade
Ultra P Grade = U
P Grade = P
A Grade = A

Fiber Length*
0.5 meter = H
1.0 meter = 1
1.5 meters = 5
2.0 meters = 2

Connector Type
None = 1
FC/PC = 2
FC/SPC = 3
FC/APC = 4
SC/PC = 5
SC/SPC = 6
SC/APC = 7

Package Type & Fiber Jacket
P1+ 400μm bare fiber = 11
P1+ 250μm bare fiber = 12
P2 +250μm fiber +900μm loose tube = 21
P2 +400μm fiber +900μm loose tube = 22

** 1 meter is standard. The lead-time for special fiber length will be longer. Connector key is aligned to slow axis.*

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