

# POLARIZATION MAINTAINING BEAM COMBINER

## PMBC Series

### Features

- Low Insertion Loss
- Highly Stable & Reliable
- Epoxy-Free Optical Path
- Compact Size
- High-Power Handling

### Applications

- EDFA
- Raman Amplifier
- Laboratory R&D

### POLARIZATION MAINTAINING BEAM COMBINER

Oplink's polarization maintaining beam combiner is perfect for next-generation amplification systems that require multiple pump sources. These devices feature very high power handling and low insertion loss due to the epoxy-free optical path. They are designed to work as pump combiners for EDFA and Raman amplifier systems. Oplink's patented packaging technology ensures the highest quality and reliability.



### Performance Specifications

PMBC Series		Unit
Wavelength Range	1450 +/- 30 1480 +/- 30 1550 +/- 30	nm
Insertion Loss	Grade P ≤ 0.5, Grade A ≤ 0.7	dB
Wavelength Dependent Loss (WDL)	< 0.15	dB
Optical Return Loss	> 55	dB
Directivity	> 45	dB
Extinction Ratio	≥ 18, typ. 21	dB
Direction of Incident Polarization	Slow Axis	
Operating Power Handling	≤ 2000	mW
Operating Temperature	0 ~ 70	°C
Storage Temperature	-40 ~ 85	°C
Fiber Type	Input ports: Fujikura Panda, 400 UV buffer Output port: Corning SMF-28	
Fiber Length	1.0 +/- 0.1	m
Physical Dimension*	P1 (with bare fiber) : 5.5 (ø) x 34.0 (L) P2 (with 900 μm loose tube) : 5.5 (ø) x 40.0 (L)	mm

\* The mechanical tolerance should be +/- 0.2 mm on all package dimensions unless otherwise custom specified.

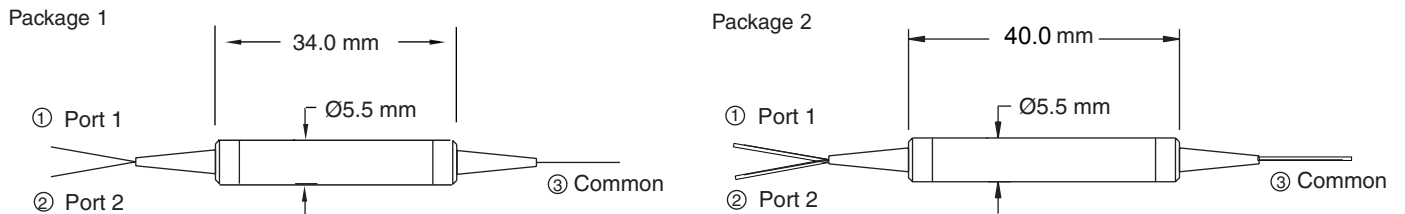
### Oplink Fiber Optic Product Lines

- Amplifier Components
- Amplifier Modules
- DWDMs
- Switching/Routing/
- Monitoring/Conditioning
- Transmission
- RGB Laser Modules



# POLARIZATION MAINTAINING BEAM COMBINER

## Mechanical Footprint Dimension (unit: mm)



## Ordering Information

Oplink custom designs and manufactures high performance fiber optic networking components and integrated optical modules. Oplink can provide a remarkable range of customized optical solutions to meet your specific design needs. By combining our technical expertise with our extensive micro-optic manufacturing and packaging capability, your volume requirements for components and customized integrated products can be met. We are happy to discuss your requirements. Please contact Oplink's OEM Design Team or Sales Representative for ordering and price information (510) 933-7200.

