



Polarization Maintaining Bandpass Filter (PMBP Series)

Rev 11

Description

The PM Bandpass Filter is a micro optics device based on environmentally stable thin-film filter technology. It is used to block out unwanted wavelength bands in fiber laser systems. The components are characterized with high isolation, low insertion loss, high extinction ratio, excellent environmental stability and high power handling capability.

Key Features

- High Extinction Ratio
- Low Insertion Loss
- High Isolation

Applications

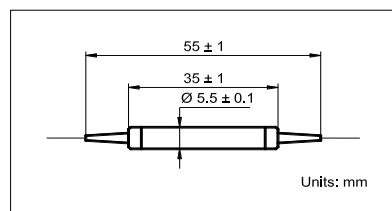
- Fiber Lasers
- Fiber Sensing

Specifications

Parameter	Unit	Value	
Center Wavelength	nm	1064	
CWL Tolerance	nm	± 1	± 0.5
Filter Pass Band @ - 0.5 dB	nm	2	8
Max. Insertion Loss over Pass Band	dB	0.8	0.8
Wavelength Suppression @ (1020 - 1058 & 1070 - 1100 nm) for 2 nm	dB	25	N/A
Wavelength Suppression @ (1000 - 1054 & 1074 - 1100 nm) for 8 nm	dB	N/A	25
Min. Extinction Ratio, 23 °C	dB	20	
Min. Return Loss	dB	50	
Thermal Stability	dB/°C	≤ 0.005	
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	PM 980 Panda Fiber	
Operating Temperature	°C	- 5 to + 70	
Storage Temperature	°C	- 40 to + 85	

¹IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMBP-①①①①-②-③-④-⑤

①①①①: Wavelength	②: Pass Bandwidth	③: Connector Type	④: Fiber Jacket	⑤: Fiber Length
1064 - 1064 nm	2 - 2 nm	1 - FC/UPC	B - 250 μm Bare Fiber	Q - 0.75 m
SSSS - Specify	8 - 8 nm	2 - FC/APC	L - 900 μm Loose Tube	S - Specify
		3 - SC/UPC	S - Specify	
		4 - SC/APC		
		N - None		
		S - Specify		