1540-1560nm PM Polarization Maintaining Bandpass Filter

Product Description

PM Band Pass Filter Idealphotonics' fiber filters use a special fiber structure to select or filter out specific wavelengths of light from different wavelengths. We can provide filter devices with different optical power versions according to user needs, which can be used in dense wavelength division multiplexing fiber communications, frequency division

multiplexing fiber communications, spectrum testing, fiber sensors, fiber lasers and fiber amplifiers. If you need to customize the center wavelength, operating temperature or specific working bandwidth, please contact us for customization.

Product features

High isolation 、Low insertion loss (0.7dB) 、High return loss (50dB) 、Excellent environmental stability 、High power handling capability

Part Number

MP-PMBPF-5577-20-20-0.3-B-NN-BB-0.8-01A-01

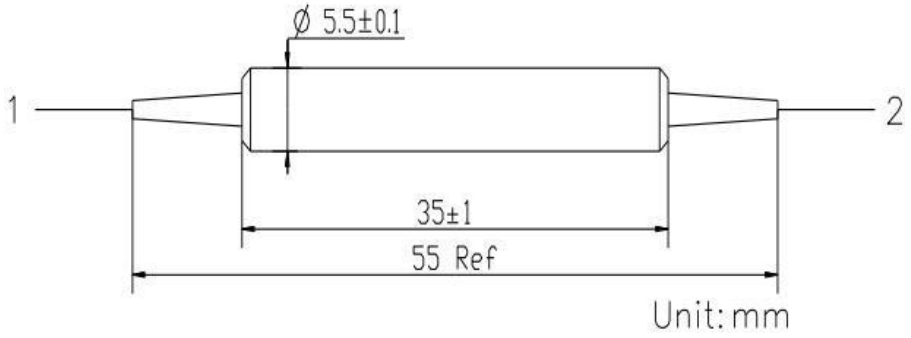
Application area

Band Erbium-Doped Fiber Amplifier 、High -density wavelength division multiplexing system 、Fiber laser 、Research

Core parameters

Nominal Center Wavelength	Suppression Band	Fiber Type
1540-1560nm	765-785	PM1550

Dimension Drawing



General Parameters

Parameter	Unit	Index
Nominal center wavelength	nm	1540-1560
Max. Insertion Loss (over Pass Band for B-Type)	dB	0.7
Max. Insertion Loss (over Pass Band for F-Type)	dB	0.9
Suppression band (Stop Band)	nm	765～785
Min. Stopband Isolation (Stop Band Isolation)	dB	25
extinction ratio at 23℃ (ER) (only for B-Type)	dB	20
extinction ratio at 23℃ (ER) (only for F-Type)	dB	22
Min. Return Loss	dB	50
Fiber Type	-	PM 1550 panda fiber
Max. tensile load	N	5
Max. Optical Power (CW)	mW	300
Operating temperature	℃	-5 to 70
Storage temperature	℃	-40 to +85

Remark:

***The above specifications apply to devices without connectors.**

***For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and**

ER will be 2dB lower.

***PM fiber and connector keys are aligned with the slow axis.**

***The material must be RoHS compliant.**

Model Description

PMBPF-①①①①-②②-③③-④④-⑤-⑥⑥-⑦⑦-⑧-⑨⑨-⑩⑩

①①①①: Wavelength
5577- 1550nm Pass / 775nm Stop
SSSS - Specify

②②: Pass Band Width
20 - 20nm
SS - Specify

③③: Stop Band Width
20 - 20nm
SS - Specify

④④:Handling Power
0.3 - 300mW
SS - Specify

⑤: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑥⑥: Connector Type on Port 1, 2
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
SS - Specify

⑦⑦: Fiber Jacket on Port 1, 2
B - Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
SS - Specify

⑧: Fiber Length
0.8 - 0.8 m
S - Specify

⑨⑨:Fiber Type
01A -PM1550 Fiber

⑩⑩ Package Type
01 - Ø5.5x35