



Multi-Core Fiber Band Pass Filter

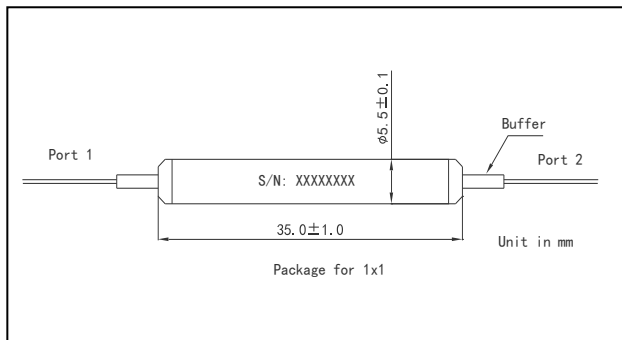
I&Optics' multicore fiber band pass filter can filter out the unwanted wavelength and transmit the signal with very low loss. It features high handling power, low insertion loss, low PDL, high signal density and high isolation. It can be used in lasers, telecom, secret communications and R&D.

Specification

Parameter	Test Condition	Unit	Value
Fiber Port Configuration	-	-	1x1
Inner Core Number	-	-	2, 4, 7, 8 or Specify
Nominal Center Wavelength	-	nm	ITU Grid or Specify
Min. Pass Band Width	@ 0.5dB	nm	0.5, 1.0, 1.8 or Specify
Max. Stop Band Width	@ 25dB	nm	2.6, 3.6, 4.4 or Specify
Max. Pass Band IL	Port 1 <-> Port 2	dB	1.0, Typ. 0.8
Min. Stop Band Isolation	Port 1 <-> Port 2	dB	25, Typ. 30
Max. Polarization Dependent Loss	at 23°C, Port 1 to Port 2	dB	0.2, Typ. 0.1
Min. Core Crosstalk	-	dB	45
Min. Return Loss	-	dB	50
Max. Power Handling Rate	CW	mW	300 / Core or Specify
Fiber Type	-	-	Single Mode Multicore Fiber or Specify
Max. Fiber Tensile Load	-	N	5
Operating Temperature	-	°C	-5 to 70
Storage Temperature	-	°C	-40 to 85

Above values are for device without connectors. For device with connectors, IL will be 0.7dB higher and return loss will be 5dB lower. Other band pass filter type is available upon request.

Package Dimensions



Ordering Informations

SMCBP-①-②-③-④-⑤-⑥-⑦

① - Center Wavelength

55 - 1550.0nm

SS - Specify

③ - Stop Band Width

2.6 - 2.6nm

3.6 - 3.6nm

4.4 - 4.4nm

S - Specify

⑤ - Connector Type on port 1/2

3 - SC/UPC

4 - SC/APC

5 - LC/UPC

⑦ - Fiber Length

0.6 - 0.6m

② - Pass Band Width

0.5 - 0.5nm

1.0 - 1.0nm

1.8 - 1.8nm

S - Specify

④ - Multicore Fiber Type

SS - Specify

⑥ - Fiber Jacket on Port 1/2

B - Bare Fiber

L - 900um Loose Tube