

1542nm Multimode Bandpass Filter for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



SPECIFICATIONS

Parameters	Unit	Value
Center Wavelength	nm	1542
Min. Pass Band Width @ 0.5dB	nm	0.12, 0.3, 0.7, 5.0, 12, 17
Insertion Loss over Pass Band Wavelength	dB	≤1.2
Stop Wavelength (ASE)	0.12nm Bandwidth	1500~1541.4 & 1542.6-1600
	0.3nm Bandwidth	1500~1541 & 1543-1600
	0.7nm Bandwidth	1500~1540.5 & 1543.5-1600
	5nm Bandwidth	1500~1537 & 1547-1600
	12nm Bandwidth	1500~1529 & 1555-1600
	17nm Bandwidth	1500~1527 & 1557-1600
Stop Wavelength (ASE)	Standard	≥25
Isolation	High Isolation	≥45
ASE Direction	-	F: Forward, B: Backward, T: Two-way
Configuration	-	D: 2-port, Y: 3-port, X: 4-port
Optical Return Loss	dB	≥30
Fiber Type	Input&Output	50/125um (OM2) or 62.5/125um (OM1) MM Fiber 50/125um OM3 MM Fiber (3) or OM4 MM Fiber(4) 105/125um MM Fiber, NA=0.12(D), 0.15(B), 0.22(A)
	ASE Guide Out (Y/X Type)	Same Fiber
Fiber Tensile Load	N	5
Max. Average Optical Power (ASE+Signal)	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20
Max. ASE Average Power	W	0.3, 0.5, 1, 2, 3, 4, 5, 10
Operating Temperature	°C	0~70
Storage Temperature	°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	∅5.5x ^L 35 (≤5W); ∅6.0x ^L 50 (5~10W)
	Metal Box	H: ^L 90x ^W 12x ^H 10 (>10W); M: ^L 120x ^W 12x ^H 10 (≤10W)

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 10dB lower.
 - Specifications are tested at low order modes.
 - Suggest to use Y/X type or H Box if blocked optical power is ≥1W.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - Devices for higher optical power or with other type fiber or consigned fiber are also available.
 - Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FMBP-1542-NN(C) (C)-(C) (C) - H NN P NN - (NN) - (C) C C NN - CC/CC												
Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Dwd ASE Fiber	Average Power	Peak Power	ASE Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03=0.3nm	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	1=1W	M=Metal Box	5= 50/125um MM Fiber	B= Bare fiber	05=0.5m	N=Without Connector
07=0.7nm	T=Two-way	Isolation	N=None	Blank for None or D Type	1=1W	1=1kW	5=5W	H=H Box	6= 62.5/125um MM Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
50=5nm	Blank for Forward	Blank for	Blank for D Type		5=5W	10=10kW	10=10W	Blank for SST	3= OM3 MM Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
170=17nm		Standard			20=20W	20=20kW	Blank for 300mW		A= 105/125um, NA=0.22 B=105/125um, NA=0.15	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

