1542nm High Power Multimode Bandpass Filter

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	nm	1500~1541.4 & 1542.6-1600
	0.3nm Bandwidth	nm	1500~1541 & 1543-1600
	0.7nm Bandwidth	nm	1500~1540.5 & 1543.5-1600
	5nm Bandwidth	nm	1500~1537 & 1547-1600
	12nm Bandwidth	nm	1500~1529 & 1555-1600
	17nm Bandwidth	nm	1500~1527 & 1557-1600
Stop Wavelength (ASE) Isolation	Standard	dB	≥25
	High Isolation	dB	≥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. Optical Power (CW, ASE+Signal)		W	1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100
Max. ASE Optical Power (CW)		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)	mm	Ø5.5xL35 (≤5W); Ø6.0xL50 (5~10W)
	Metal Box	mm	H:L90xW12xH10 (>10W);M:L120xW12xH10 (≤10W)

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

Ordering Information (PN)

FMBP-1542-NN(C) (C) - (C) (C) - HP NN -(NN) -(C) C C NN -CC/CCC

Bandwidth	*ASE Type*	*ASE Iso*	*Fwd ASE Fiber*	*Bwd ASE Fiber*	*Optical 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	1= 1W	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	5= 5W	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		10=10W	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	*Blank* for300mW		A= 105/125um, NA=0.22	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector
								B=105/125um, NA=0.15			