

1542nm 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)	Standard	dB	≥25
Isolation	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		≥50
Polarization Dependent Loss	dB		≤0.15
Fiber Type	Input&Output	-	SMF-28 Fiber or 10/130um DC Fiber NA=0.08 (O) 10/130um DC Fiber NA=0.15 (O2) or 12/130um DC Fiber (T) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)
	ASE Guide Out (Y/X Type)	-	Same Fiber or MM Fiber
Fiber Tensile Load	N		5
Max. Optical Power (CW, ASE+Signal)	mW		300
Operating Temperature	°C		0~70
Storage Temperature	°C		-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5xL35
	Metal Box	mm	L120x ^W 12x ^H 10

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 3. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
 - 4 Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

FFBP-1542-NN(C)	(C)	-	(C)	(C)	-(C)	(C)	C	NN	-CC/CCC
Bandwidth	ASE Type	ASE Iso	Fwd ASE Fiber	Bwd ASE Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03=0.3nm	B=Backward	I=High	Y=Same Fiber	Y=Same Fiber	M=Metal Box	O=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
07=0.7nm	T=Two-way	Isolation	A=105/125um Fiber	A=105/125um Fiber	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
50=5nm	Blank for Forward	Blank for	N=None	5=50/125um Fiber		G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
170=17nm		Standard	Blank for D Type	Blank for None or D Type		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

