

1540nm PM BP Filter/Tap Hybrid for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks



SPECIFICATIONS

Parameters	Unit	Value
Center Wavelength	nm	1540
Min. Pass Band Width @ 0.5dB	nm	2.0, 4.0, 5.0, 7.0, 10.0, 15.0
Excess Loss	dB	≤1.6
Stop Band @25dB	2nm Bandwidth	1510~1538 & 1542~1600
	4nm Bandwidth	1510~1536 & 1544~1600
	5nm Bandwidth	1510~1534 & 1546~1600
	7nm Bandwidth	1510~1533 & 1547~1600
	10nm Bandwidth	1510~1530 & 1550~1600
	15nm Bandwidth	1510~1527.5 & 1552.5~1600
Tap Ratio	%	1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%
Tap Position	F Type (Forward)	Tap is before Bandpass Filter, Y Type (3-port)
	B Type (Backward)	Tap is after Bandpass Filter, Y Type (3-port)
	X Type	Tap is after Bandpass Filter, 4-port, (Blocked Wavelength Guide Out)
Fiber Type at Tap Port or 4 th Port	-	Same Fiber, Corr. SM Fiber or 50/125um MM Fiber
Optical Return Loss	dB	≥50
Extinction Ratio	dB	≥18
Fiber Type	-	PM1550 Panda Fiber or 10/125um PMDC Fiber (O)
	-	12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)
	-	25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)
Fiber Tensile Load	N	5
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature	°C	0~70
Storage Temperature	°C	-40~85
Package	Stainless Steel Tube (SST)	(Ø)5.5x40 (≤5W); (Ø)6.0x48 (5~10W)
Dimension	Metal Box	(L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 (≤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 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 4. 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.
 5. Backward type can only work in slow axis and fast axis is blocked. Suggest to use X type if blocked power is >1W.

ORDERING INFORMATION (PN)

FPHB-1540-NN NN(C) - C (C) - H NN P NN - (C) C C NN - CC/CCC

Bandwidth	Tap Ratio	Position	Tap Port Fiber	4th Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
20=2nm	01=1%	F=F Type	Y=Same Fiber	Y=Same Fiber	03=300mW	01=100W	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
50=5nm	05=5%	X=X Type	S=Corr. SM Fiber	S=Corr. SM Fiber	1= 1W	1= 1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
100=10nm	10=10%	Blank for B Type	5=50/125um Fiber	5=50/125um Fiber	5= 5W	5= 5kW	or >10W	T=12/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
150=15nm	50=50%		Blank for F&B Type		10=10W	10=10kW		G=25/300 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector