1545nm 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	1545
Min. Pass Band Width @ 0.5dB		nm	3.0, 4.0, 10, 12
Excess Loss		dB	≤1.8
Stop Band @25dB	3nm Bandwidth	nm	1510~1542 & 1548~1600
	4nm Bandwidth		1510~1540 & 1550~1600
	10nm Bandwidth		1510~1537 & 1553~1600
	12nm Bandwidth		1510~1532 & 1558~1600
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 4th 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	0~50
Storage Temperature		°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x40 (≤5W); (Ø)6.0x48 (5~10W)
	Metal Box	mm	(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-1545-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
30=3nm	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
40=4nm	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
120=12nm	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