

## 1545nm BP Filter/Tap Hybrid for Pulse Power

### FEATURES

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

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV 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	≤1.6
Stop Band @25dB	3nm Bandwidth	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)
Optical Return Loss	dB	≥50
PDL	dB	≤0.15
Fiber Type	-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC 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)	mm (Ø)5.5x40 (≤5W); (Ø)6.0x48 (5~10W)
Dimension	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.
  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.

### ORDERING INFORMATION (PN)

FHBT-1545-NN	NN	C	-H NN	P NN	-(C)	(C)	C	NN	- CC/CCC
Bandwidth	Tap Ratio	Tap Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
30=3nm	01=1%	Y=Same Fiber	03=300mW	01=100W	M=Metal Box	O=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
40=4nm	05=5%	5=50/125um Fiber	1=1W	1=1kW	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
100=10nm	10=10%		5=5W	5=5kW	or >10W	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
120=12nm	50=50%		10=10W	10=10kW		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector