



## 1545nm BP/Partial Mirror Hybrid

### 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. Bandwidth@0.5dB	nm	3.0, 4.0, 10, 12
Excess Loss	dB	≤1.3
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
Reflective Ratio	%	1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 80, 90
Configuration	D Type	2-port
	Y Type	3-port, (Blocked Wavelength Guide Out)
Fiber Type at 3 <sup>rd</sup> Port (Only for Y Type)	-	Same Fiber or 50/125um MM Fiber
Optical Return Loss	dB	≥45
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. Optical Power (CW)	mW	300
Operating Temperature	°C	0~70
Storage Temperature	°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	(Ø)5.5x35
	Metal Box	(L)120x(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. Suggest to use Y type if blocked optical power is >1W.
  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)

FHBR-NNNN	-	NN	-	(C)	-	(C)	(C)	C	NN	-CC/CCC
Center Wavelength	Bandwidth	Ref. Ratio	3rd Port Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type		
1545=1545nm	30=3nm	01= 1%	Y=Same Fiber	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	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector		
	100=10nm	50=50%	Blank for D Type		G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
	120=12nm	90=90%			Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		