



## 1556nm High Power 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	1556	
Min. Bandwidth@0.5dB	nm	2.0, 8.0, 15.0	
Excess Loss	dB	≤1.3	
Stop Band @25dB	2nm Bandwidth	nm	1500~1553 & 1559-1610
	8nm Bandwidth	nm	1500~1548 & 1564-1610
	15nm Bandwidth	nm	1500~1544 & 1568-1610
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)	W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(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. Suggest to use Y type if blocked optical power is >1W.
  4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  5. 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	NN	(C)	-HP NN	(C)	(C)	C	NN	-CC/CCC
Center Wavelength	Bandwidth	Ref. Ratio	3rd Port Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1556=1556nm	20-2nm	01=1%	Y=Same Fiber	1=1W	M=Metal Box	O=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	80=8nm	05=5%	5=50/125um Fiber	5=5W	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	150=15nm	50=50%	Blank for D Type	10=10W	or >10W	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		90=90%		20=20W		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector