

1550nm BP/Partial Mirror Hybrid for Pulse Power ($\geq 10\text{nm BW}$)

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	1550
Min. Bandwidth@0.5dB	nm	10, 15, 20
Excess Loss	dB	≤ 1.3
Stop Band @25dB	10nm Bandwidth	1520~1540 & 1560~1610
	15nm Bandwidth	1500~1537 & 1563~1610
	20nm Bandwidth	1500~1533 & 1567~1610
Reflective Ratio	%	1 \pm 0.6, 2 \pm 0.8, 5 \pm 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 rd 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. 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	$^{\circ}\text{C}$	0~70
Storage Temperature	$^{\circ}\text{C}$	-40~85
Package Dimension	Stainless Steel Tube (SST)	(\varnothing)5.5x35 ($\leq 5\text{W}$); (\varnothing)6.0x48 (5~10W)
	Metal Box	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 ($\leq 10\text{W}$)

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 - Suggest to use Y type if blocked optical power is $> 1\text{W}$.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - 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-NNN	NN	(C)	-H	NN	P	NN	-(C)	(C)	C	NN	-CC/CCC
Center Wavelength	Bandwidth	Ref. Ratio	3rd Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1550-1550nm	100-10nm	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	
	150-15nm	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	
	200-20nm	50-50%	Blank for D Type	5-5W	5-5kW	or >10W	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
		90-90%		10-10W	10-10kW		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	