



1970nm BP/Partial Mirror 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	1970
Min. Bandwidth@0.5dB	nm	6.0
Excess Loss	dB	≤1.5
Stop Band @25dB	nm	1900-1960 & 1980-2050
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 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 SM1950 Fiber (V)
	-	10/130um DC Fiber (O) or 25/250um DC Fiber (R)
Fiber Tensile Load	N	5
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10
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)5.5x35 (≤5W); (Ø)6.0x48 (5~8W)
	Metal Box	mm (L)90x(W)18x(H)10 (>8W); (L)120x(W)12x(H)10 (≤8W)

- 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)	-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										
1970	1970nm	60	6nm	01	1%	Y=Same Fiber	03	300mW	01	100W	M=	Metal Box	V=	SM1950 Fiber	B=	Bare fiber	05	0.5m	N=	Without Connector
		05	5%	5	50/125um Fiber	1	1W	1	1kW	Blank	for SST	0	10/130 DC Fiber	L=	Loose Tube	10	1.0m	FC/APC=	FC/APC Connector	
		50	50%	Blank	for D Type	5	5W	5	5kW	or	>8W	R=	25/250 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			