# 1031nm BP Filter/Tap Hybrid for Pulse Power

### **FEATURES**

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

## **APPLICATIONS**

- **Broadband Systems**
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



### **SPECIFICATIONS**

Center Wavelength         nm         1031           Min. Pass Band Width @ 0.5dB         nm         8.0           Excess Loss         dB         ≤1.6           Stop Wavelength (ASE)         nm         960~1021&1041~1100           Stop Wavelength (ASE) Isolation         dB         Standard: ≥25; High Isolation ≥45           Tap Ratio         %         1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%           Tap Position         F Type         -         Tap is before Bandpass Filter, Y Type (3-port)           Optical Return Loss         dB         ≥50           PDL         dB         ≤0.15           HI1060 Fiber or 10/125um SC Fiber (E)         10/125um DC Fiber (O), 15/130um DC Fiber (W)           20/130um DC Fiber (Q) or 25/250um DC Fiber (W)         20/130um DC Fiber (Q) 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, 15, 20, 30, 40, 50, 60           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	Parameters			Value		
Stop Wavelength (ASE)   nm   960~1021&1041~1100	Center Wavelength			1031		
Stop Wavelength (ASE)         nm         960~1021&1041~1100           Stop Wavelength (ASE) Isolation         dB         Standard: ≥25; High Isolation ≥45           Tap Ratio         %         1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%           Tap Position         F Type         -         Tap is before Bandpass Filter, Y Type (3-port)           Optical Return Loss         dB         ≥50           PDL         dB         ≤0.15           HI1060 Fiber or 10/125um SC Fiber (E)           10/125um DC Fiber (O), 15/130um DC Fiber (W)           20/130um DC Fiber (Q) or 25/250um DC Fiber (R)           Tap Port         -         Same Fiber, HI1060 Fiber or MM Fiber           Fiber Tensile Load         N         5           Max. Average Optical Power         W         0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60           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	Min. Pass Band Width @	0.5dB	nm	8.0		
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Optical Return Loss         dB         ≥50           PDL         dB         ≤0.15           Fiber Type         Input&Output         - Input&Output         - Input&Output         - Input&Output DC Fiber (O), 15/130um DC Fiber (W)           Tap Port         - Same Fiber, HI1060 Fiber or MM Fiber           Fiber Tensile Load         N         5           Max. Average Optical Power         W         0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60           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	Tap Ratio			1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 50%		
PDL   dB   ≤0.15   HI1060 Fiber or 10/125um SC Fiber (E)   10/125um DC Fiber (O), 15/130um DC Fiber (W)   20/130um DC Fiber (Q) or 25/250um DC Fiber (R)   Tap Port   Same Fiber, HI1060 Fiber or MM Fiber   Fiber Tensile Load   N   5   Max. Average Optical Power   W   0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60   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   One of the control of the cont	Tap Position	F Type	-	Tap is before Bandpass Filter, Y Type (3-port)		
HI1060 Fiber or 10/125um SC Fiber (E)   10/125um DC Fiber (O), 15/130um DC Fiber (W)   20/130um DC Fiber (Q) or 25/250um DC Fiber (R)   20/130um DC Fiber (Q) or 25/250um DC Fiber (R)   Same Fiber, HI1060 Fiber or MM Fiber   N   5   Same Fiber, HI1060 Fiber or MM Fiber   N   Same Fiber or MM Fi	Optical Return Loss			≥50		
Fiber Type       Input&Output       - 10/125um DC Fiber (O), 15/130um DC Fiber (W)         20/130um DC Fiber (Q) or 25/250um DC Fiber (R)         Tap Port       - Same Fiber, HI1060 Fiber or MM Fiber         Fiber Tensile Load       N       5         Max. Average Optical Power       W       0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60         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	PDL		dB	≤0.15		
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Tap Port   Same Fiber, HI1060 Fiber or MM Fiber	Fiher Type	Input&Output		10/125um DC Fiber (O), 15/130um DC Fiber (W)		
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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	Fiber Tensile Load		N	5		
Operating Temperature °C 0~50 Storage Temperature °C -40~85	Max. Average Optical Power			0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60		
Storage Temperature °C -40~85	Max. Peak Power for pulse			0.1, 1, 2, 3, 5, 10, 15, 20		
of the second of	Operating Temperature			0~50		
	Storage Temperature			-40~85		
Stainless Steel Tube (SST) mm   Stainless Steel Tube (SST) mm	Dackage Dimension	Stainless Steel Tube (SST)	mm	<sup>∅</sup> 5.5x <sup>L</sup> 40 (≤5W); <sup>∅</sup> 6.0x <sup>L</sup> 50 (5~10W)		
Package Dimension  Metal Box mm   L120xW12xH10 (≤10W)	Package Dimension	Metal Box	mm	<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)		

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

- 2. To add connectors, IL is 0.5dB 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.
  - 5. Package size may be different for different optical power and configurations.

# **ORDERING INFORMATION (PN)**

FHBT-10	31-NN	(C) NN	C -	- H NN	P NN	-( <b>C</b> )	( <b>C</b> )	С	NN	- CC/CCC
Bandwidth	ASE Iso	Tap Ratio	Tap Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
80=8nm	I=High	01-1%	Y=Same Fiber	03=300mW	01-100W	M=Metal Box	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	Isolation	<mark>05=</mark> 5%	H=HI1060 Fiber	1- 1W	1= 1kW	<i>Blank</i> for SST	<b>Q-</b> 20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	<i>Blank</i> for	10-10%	<b>5=</b> 50/125um Fiber	5= 5W	5= 5kW	or >10W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	Standard	<del>50=</del> 50%		10-10W	10-10kW		<i>Blank</i> for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector



