

## 980/1020~1120nm High Power WDM/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	
Signal Wavelength Range $\lambda_1$	nm	1020 $\pm$ 5, 1030 $\pm$ 10, 1040 $\pm$ 10, 1053 $\pm$ 10, 1064 $\pm$ 10, 1080 $\pm$ 10, 1092 $\pm$ 5, 1120 $\pm$ 5	
Pump Wavelength Range $\lambda_2$	nm	980 $\pm$ 10	
Excess Loss      Signal Channel@ $\lambda_1$	dB	$\leq$ 1.4	
Insertion Loss      Pump Channel@ $\lambda_2$	dB	$\leq$ 0.8	
Signal Reflective Ratio (Common $\leftrightarrow$ Pass)	%	1 $\pm$ 0.6, 2 $\pm$ 0.8, 5 $\pm$ 1, 10, 20, 30, 40, 50, 60, 70, 80, 90	
Wavelength      Signal Channel@ $\lambda_2$	dB	$\geq$ 25	
Isolation      Pump Channel@ $\lambda_1$	dB	$\geq$ 12	
Optical Return Loss	dB	$\geq$ 45	
PDL	dB	$\leq$ 0.2	
Pump Type	Forward	-	Pump&Signal at same direction
	Backward	-	Pump&Signal at reverse direction
Fiber Type	Common & Signal 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)	
	Pump Port	-	Same Fiber or HI1060 Fiber
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature	$^{\circ}$ C	0~50	
Storage Temperature	$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	( $\varnothing$ )5.5x40 ( $\leq$ 5W); ( $\varnothing$ )6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 ( $\leq$ 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.

### ORDERING INFORMATION (PN)

FFHP-98NN	- (C)	NN	(C)	-HP NN	-(C)	(C)	C	NN	-CC/CCC
Pass Wavelength	Pump Type	Refl. Ratio	Pump Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
06=1064nm	F= Forward	01=1%	H= HI1060 Fiber	1=1W	M= Metal Box	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N= Without Connector
03=1030nm	Blank for Backward	05=5%	Blank for Same Fiber	5=5W	Blank for SST	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
08=1080nm		10=10%		10=10W	or >10W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12=1120nm		50=50%		20=20W		Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector