

# 1550/2000nm WDM/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	
Signal Wavelength Range $\lambda_1$	nm	1900±10, 1930±20, 1950±20, 1970±20, 2000±30, 2030±20, 2050±10, 2070±10	
Pump Wavelength Range $\lambda_2$	nm	1530±20, 1550±20, 1570±20, 1590±20	
Excess Loss      Signal Channel@ $\lambda_1$	dB	≤1.5	
Insertion Loss      Pump Channel@ $\lambda_2$	dB	≤0.8	
Signal Reflective Ratio (Common<->Pass)	%	1±0.6, 2±0.8, 5±1, 10, 20, 30, 40, 50, 60, 70, 80, 90	
Wavelength      Signal Channel@ $\lambda_2$	dB	≥25	
Isolation      Pump Channel@ $\lambda_1$	dB	≥12	
Optical Return Loss	dB	≥45	
PDL	dB	≤0.2	
Pump Type	Forward	-	Pump&Signal at same direction
	Backward	-	Pump&Signal at reverse direction
Fiber Type	Common & Signal	-	SMF-28 Fiber or SM1950 Fiber (V)
	Port	-	10/130um DC Fiber (O) or 25/250um DC Fiber (R)
	Pump Port	-	Same Fiber or SMF-28 Fiber
Fiber Tensile Load	N	5	
Maximum 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)5.5x40 (≤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. 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-NNNN	- (C)	NN	(C)	-H NN	P NN	-(C)	(C)	C	NN	-CC/CCC	
Refl. WL	Pass WL	Pump Type	Refl. Ratio	Pump Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
15=1550nm	19=1950nm	F=Forward	01=1%	S=SMF-28 Fiber	03=300mW	01=100W	M=Metal Box	V=SM1950 Fiber	B=Bare fiber	05=0.5m	N=Without Connector
53=1530nm	90=1900nm	Blank for Backward	05=5%	Blank for Same Fiber	1=1W	1=1kW	Blank for SST	O=10/130 DC Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector
57=1570nm	20=2000nm		10=10%		5=5W	5=5kW	or >8W	R=25/250 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
59=1590nm	25=2050nm		50=50%		20=20W	20=20kW		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector