

915/1550~1590nm WDM/Partial Mirror PM 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	Standard Type	High ER Type
Signal Wavelength Range λ_1		nm	1530~1580, 1570~1610	
Pump Wavelength Range λ_2		nm	915+/-10	
Excess Loss	Signal Channel@ λ_1	dB	≤ 1.3	≤ 1.5
Insertion Loss	Pump Channel@ λ_2	dB	≤ 1.0	
Signal Reflective Ratio (Common<->Pass)		%	1 \pm 0.6, 2 \pm 0.8, 5 \pm 1, 10, 20, 30, 40, 50, 60, 70, 80, 90	
Wavelength	Signal Channel@ λ_2	dB	≥ 25	
Isolation	Pump Channel@ λ_1	dB	≥ 12	
Optical Return Loss		dB	≥ 45	
Extinction Ratio		dB	≥ 18	≥ 20
Pump Type	Forward	-	Pump&Signal at same direction	
	Backward	-	Pump&Signal at reverse direction	
Fiber Type	Common & Signal Port	-	PM1550 Panda Fiber or 10/125um PMDC Fiber (O)	
			12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)	
	25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)			
	Pump Port	-	Same Fiber, PM850 Fiber, PM980 Fiber or HI1060 Fiber	
Fiber Tensile Load		N	5	
Maximum 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		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x40 ($\leq 5W$); (Ø)6.0x48 (5~10W)	
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 ($\leq 10W$)	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - 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.
 - High ER type can only work in slow axis at pass port.

ORDERING INFORMATION (PN)

FPHP-91NN	-(C)	NN	C	(C)	-H NN	P NN	-(C)	C	C	NN	-CC/CCC
Pass Wavelength	Pump Type	Refl. Ratio	Pump Fiber	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
15=1550nm	F=Forward	01=1%	P=PM980 Fiber	H=High ER	03=300mW	01=100W	M=Metal Box	2=PM1550 Fiber	B=Bare fiber	05=0.5m	N=Without Connector
59=1590nm	Blank for Backward	05=5%	S=HI1060 Fiber	Blank for Standard	1=1W	1=1kW	Blank for SST	0=10/125 PMDC Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		10=10%	Y=Same Fiber		5=5W	5=5kW	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		50=50%	H=PM980 Fiber		20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

