

980/1020-1120nm WDM/Partial Mirror PM 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	Standard Type	High ER Type
Signal Wavelength Range λ_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 λ_2		nm	980 \pm 10	
Excess Loss	Signal Channel@ λ_1	dB	\leq 1.4	\leq 1.6
Insertion Loss	Pump Channel@ λ_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@ λ_2	dB	\geq 25	
Isolation	Pump Channel@ λ_1	dB	\geq 12	
Optical Return Loss		dB	\geq 45	
Extinction Ratio		dB	\geq 18	\geq 20
Pump Type	Forward	-	Pump&Signal at same direction	
	Backward	-	Pump&Signal at reverse direction	
Fiber Type	Common & Signal Port	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
	Pump Port	-	Same Fiber or Corresponding SM Fiber	
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		mW	300	
Operating Temperature		$^{\circ}$ C	0~50	
Storage Temperature		$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing) 5.5x40	
	Metal Box	mm	(L) 120x (W) 12x (H) 10	

- 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, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. 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.
 4. High ER type can only work in slow axis at pass port.

ORDERING INFORMATION (PN)

FPHP-98NN - (C)	NN	C	(C)	-(C)	C	C	NN	-CC/CCC	
Pass Wavelength	Pump Type	Tap Ratio	Pump Fiber	Type	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
06=1064nm	F=Forward	01=1%	P=Same Fiber	H=High ER	M=Metal Box	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
03=1030nm	Blank for Backward	05=5%	S=Corr. SM Fiber	Blank for Standard	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
08=1080nm		10=10%				Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12=1120nm		50=50%				R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

