

1550/2000nm 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	1900±10, 1930±20, 1950±20, 1970±20, 2000±30, 2030±20, 2050±10, 2070±10	
Pump Wavelength Range λ_2		nm	1530±20, 1550±20, 1570±20, 1590±20	
Excess Loss	Signal Channel@ λ_1	dB	≤1.5	≤1.7
Insertion Loss	Pump Channel@ λ_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@ 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 PM1950 Fiber (V)	
	Pump Port	-	10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		mW	300	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x40	
	Metal Box	mm	(L)120x(W)12x(H)10	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - 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-NN	NN	- (C)	NN	(C)	(C)	- (C)	C	C	NN	-CC/CCC
Refl. WL	Pass WL	Pump Type	Refl. Ratio	Pump Fiber	Type	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
15=1550nm	19=1950nm	F=Forward	01=1%	Y=Same Fiber	H=High ER	M=Metal Box	2=PM1550 Fiber	B=Bare fiber	05=0.5m	N=Without Connector
53=1530nm	90=1900nm	Blank for Backward	05=5%	S=Corr. SM Fiber	Blank for Standard	Blank for SST	V=PM1950 Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector
57=1570nm	20=2000nm		10=10%				O=10/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
59=1590nm	25=2050nm		50=50%				R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector