

## 980/1020~1150nm High Power PM WDM

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

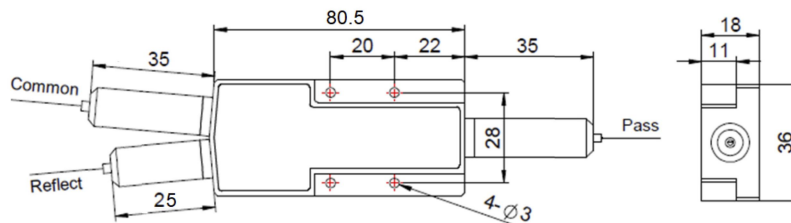


### SPECIFICATIONS

Parameters	Unit	Standard	High Isolation
Pass Channel Wavelength Range $\lambda_1$	nm	980 $\pm$ 10, 1020 $\pm$ 5, 1030 $\pm$ 10, 1040 $\pm$ 10,	
Reflective Channel Wavelength Range $\lambda_2$	nm	1053 $\pm$ 10, 1064 $\pm$ 10, 1070 $\pm$ 10, 1080 $\pm$ 10, 1092 $\pm$ 5, 1120 $\pm$ 5, 1150 $\pm$ 5	
Insertion Loss over $\lambda_1$ @ Pass Channel	dB	$\leq$ 1.0	$\leq$ 1.2
Insertion Loss over $\lambda_2$ @ Reflective Channel	dB	$\leq$ 0.8	
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation over $\lambda_1$ @ Reflective Channel	dB	$\geq$ 12	
Isolation over $\lambda_2$ @ Pass Channel	dB	$\geq$ 25	$\geq$ 45
Optical Return Loss	dB	$\geq$ 50	
Extinction Ratio	Standard	$\geq$ 18	
	High ER Type	$\geq$ 20	
Fiber Type	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
Polarization Alignment	-	Slow Axis	
Fiber Tensile Load	N	5	
Max. Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Operating Temperature	$^{\circ}$ C	0~50	
Storage Temperature	$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$\phi$ 5.5x <sup>L</sup> 35 ( $\leq$ 5W); $\phi$ 6.0x <sup>L</sup> 50 (5~10W)
	Metal Box	mm	<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 ( $\leq$ 10W)

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB 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.
  - Package size may be different for different fiber type, optical power and configurations.

### PACKAGE DIMENSION (> 10W)



### ORDERING INFORMATION (PN)

FPWM-NN	NN	-(C)	C	(C)	C	(C)-HPNN	-(C)	C	C	NN	-CC/CCC	
Ref Wavelength	Pass Wavelength	Mode	Pump Fiber	Pump Fiber2	Type	Isolation	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
98-980nm	05-1053nm	M= Mux	P=Same Fiber	P=Same Fiber	H=High ER	I= High Iso	1= 1W	M= Metal Box	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
06=1064nm	03=1030nm	D= Demux	S=Corr. SM Fiber	X=Corr. SM Fiber	S=Standard	Blank for	5=5W	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
02=1020nm	09=1092nm	Blank for Both	M=PM980 Fiber	Blank for Y Type		Standard	10=10W	or >10W	Q=20/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12=1120nm	98=980nm		H=H1060 Fiber				20=20W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/APC=SC/APC