

## 1070/1020~1120nm PM WDM 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	High ER Type
Pass Channel Wavelength Range $\lambda_1$	nm	1070 $\pm$ 1	
Reflective Channel Wavelength Range $\lambda_2$	nm	1020 $\pm$ 10, 1030 $\pm$ 10, 1040 $\pm$ 10, 1053 $\pm$ 10 1080 $\pm$ 5, 1092 $\pm$ 5, 1120 $\pm$ 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	
Optical Return Loss	dB	$\geq$ 50	
Extinction Ratio	dB	$\geq$ 18	$\geq$ 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. 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	$^{\circ}$ C	0~50	
Storage Temperature	$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	( $\varnothing$ )5.5x35 ( $\leq$ 5W); ( $\varnothing$ )6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 ( $\leq$ 10W)

- 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. 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.
  5. High ER type can only work in slow axis at pass port.

### ORDERING INFORMATION (PN)

FPWM-NN	NN	- C	(C)	C-H NN	P NN	-(C)	C	C	NN	-CC/CCC	
Ref Wavelength	Pass Wavelength	Ref. Fiber	Ref. Fiber2	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03=1030nm	07=1070nm	P= Same Fiber	P= Same Fiber	H=High ER	03=300mW	01=100W	M=Metal Box	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
05=1053nm		S= Corr. SM Fiber	S= Corr. SM Fiber	S=Standard	1= 1W	1= 1kW	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
09=1092nm				Blank for Y Type	10=10W	10=10kW	or >10W	Q=20/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12=1120nm					20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector