

915/1020~1120nm 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 λ_1	nm	915 \pm 10, 1020 \pm 5, 1030 \pm 10, 1040 \pm 10, 1053 \pm 10, 1064 \pm 10, 1070 \pm 10, 1080 \pm 10, 1092 \pm 5, 1120 \pm 5	
Reflective Channel Wavelength Range λ_2	nm		
Insertion Loss over λ_1 @ Pass Channel	dB	\leq 1.2	\leq 1.4
Insertion Loss over λ_2 @ Reflective Channel	dB	\leq 1.0	
Configuration	Y Type	3-port	
	X Type	4-port (2x2 WDM)	
Isolation over λ_1 @ Reflective Channel	dB	\geq 12	
Isolation over λ_2 @ Pass Channel	dB	\geq 25	
Optical Return Loss	dB	\geq 50	
Extinction Ratio	dB	\geq 18	\geq 20
Fiber Type	-	PM850 Fiber or 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 (Ø)5.5x35 (\leq 5W); (Ø)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 0.7dB 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	Pump Fiber	Pump Fiber2	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type		
91	915nm	05	1053nm	P=Same Fiber	P=Same Fiber	H=High ER	03=300mW	01=100W	M=Metal Box	2=PM850Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
06	1064nm	03	1030nm	S=Corr. SM Fiber	X=Corr. SM Fiber	S=Standard	1= 1W	1= 1kW	Blank for SST	H=PM980Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
02	1020nm	09	1092nm	M=PM850 Fiber	Blank for Y Type		10=10W	10=10kW	or >10W	E=PM1060L Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12	1120nm	91	915nm	H=PM980 Fiber			20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector