

## 915/1310/1550/1590nm PM WDM for Pulse Power



### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

### SPECIFICATIONS

Parameters	Unit	Standard	High ER Type
Pass Channel Wavelength Range $\lambda_1$	nm	1310 $\pm$ 20, 1550 $\pm$ 20, 1590 $\pm$ 20	
Reflective Channel Wavelength Range $\lambda_2$	nm	915 $\pm$ 15	
Insertion Loss over $\lambda_1$ @ Pass Channel	dB	$\leq$ 1.2	$\leq$ 1.4
Insertion Loss over $\lambda_2$ @ Reflective Channel	dB	$\leq$ 1.0	
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	Common & Signal	-	PM1310/1550 Panda Fiber or 10/125um PMDC Fiber (O)
		-	12/130um PMDC Fiber (T) or 20/130um PMDC Fiber (Q)
Fiber Type	Pump (915nm)	-	25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)
		-	Same Fiber, Corr. SM Fiber, PM850 Fiber or HI780 Fiber
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)18x(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.
  6. 915nm light will transmit as low order modes in common port signal fiber.

### 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	15=1550nm	Y= Same Fiber	X= Same Fiber	H= High ER	03=300mW	01=100W	M= Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	59=1590nm	S= Corr. SM Fiber	S= Corr. SM Fiber	S= Standard	1= 1W	1= 1kW	Blank for SST	E=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	13=1310nm	P=PM850 Fiber	P=PM850 Fiber		10=10W	10=10kW	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		H=HI780 Fiber	Blank for Y Type		20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UFC=SC/UFC Connector