

**1480/1550/1590nm PM WDM Filter for Pulse Power**

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**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	1530-1580, 1570-1610	
Reflective Channel Wavelength Range $\lambda_2$	nm	1450-1490	
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	-	PM1550 Panda Fiber, 10/125um PMDC Fiber (O), 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)	
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	°C	0~70	
Storage Temperature	°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 0.3dB 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.
  3. 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
14-1480nm	15-1550nm	P= Same Fiber	P= Same Fiber	H= High ER	03-300mW	01-100W	M= Metal Box	2= PM1550 Fiber	B= Bare Fiber	05-0.5m	N= Without Connector
15-1550nm	59-1590nm	S= Corr. SM Fiber	S= Corr. SM Fiber	Blank for	1-1W	1-1kW	Blank for SST	0= 10/125 PMDC Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector
59-1590nm	14-1480nm		Blank for Y Type	Standard	10-10W	10-10kW	or >10W	T= 12/130 PMDC Fiber	2= 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
					20-20W	20-20kW		R= 25/250 PMDC Fiber	3= 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector