

## 1625/1650nm PM WDM Filter 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	1620~1630	
Reflective Channel Wavelength Range $\lambda_2$	nm	1640~1655	
Insertion Loss over $\lambda_1$ @ Pass Channel	dB	≤1.0	≤1.2
Insertion Loss over $\lambda_2$ @ Reflective Channel	dB	≤0.8	
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation over $\lambda_1$ @ Reflective Channel	dB	≥12	
Isolation over $\lambda_2$ @ Pass Channel	dB	≥25	
Optical Return Loss	dB	≥50	
Extinction Ratio	dB	≥18	≥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 (≤5W); ( $\varnothing$ )6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (≤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.
  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) - H	NN	P	NN	- (C)	C	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Configuration	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
16-1650nm	62-1625nm	X= X Type Blank for Y Type	H= High ER Blank for Standard	03=300mW 1= 1W 10=10W 20=20W	01=100W 1= 1kW 10=10kW 20=20kW	M= Metal Box Blank for SST or >10W	2=PM1550 Fiber 0=10/125 PMDC Fiber T=12/130 PMDC Fiber R=25/250 PMDC Fiber	B= Bare Fiber L= Loose Tube 2=2mm Cable 3=3mm Cable	05=0.5m 10=1.0m 15=1.5m 20=2.0m	N=Without Connector FC/APC=FC/APC Connector LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector	