

1900~1950/2050~2070nm PM WDM Filter for Pulse Power



FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks

SPECIFICATIONS

Parameters		Unit	Standard	High ER Type
Pass Channel Wavelength Range λ_1		nm	2050 \pm 10, 2070 \pm 10	
Reflective Channel Wavelength Range λ_2		nm	1900 \pm 10, 1950 \pm 20	
Insertion Loss	Pass Channel@ λ_1	dB	\leq 1.4	\leq 1.6
	Reflective Channel@ λ_2	dB	\leq 1.2	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@ λ_2	dB	\geq 25	
	Reflective Channel@ λ_1	dB	\geq 12	
Optical Return Loss		dB	\geq 45	
Directivity		dB	\geq 50	
Extinction Ratio		dB	\geq 18	\geq 20
Fiber Tensile Load		N	5	
Fiber Type		-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
Max. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10	
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 (5~8W)	
	Metal Box	mm	(L)90x(W)18x(H)10 (>8W); (L)120x(W)12x(H)10 (\leq 8W)	

- 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	
90~1900nm	25~2050nm	X-X Type	H-High ER	03~300mW	01~100W	M-Metal Box	2- PM1550 Fiber	B- Bare fiber	05~0.5m	N-Without Connector	
19~1950nm	27~2070nm	Blank for Y Type	Blank for Standard	1- 1W	1-1kW	Blank for SST	V- PM1950 Fiber	L- Loose Tube	10~1.0m	FC/APC=FC/APC Connector	
				5- 5W	5-5kW	or >8W	O-10/130 PMDC Fiber	2- 2mm Cable	15~1.5m	LC/PC=LC/PC Connector	
				10~10W	10~10kW		R-25/250 PMDC Fiber	3- 3mm Cable	20~2.0m	SC/UPC=SC/UPC Connector	