

1310/1550/1590nm 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 Isolation
Pass Channel Wavelength Range λ_1	nm	1530-1580, 1570-1610	
Reflective Channel Wavelength Range λ_2	nm	1270-1350	
Insertion Loss over λ_1 @ Pass Channel	dB	≤1.0	≤1.2
Insertion Loss over λ_2 @ Reflective Channel	dB	≤0.8	
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Isolation over λ_1 @ Reflective Channel	dB	≥12	≥25
Isolation over λ_2 @ Pass Channel	dB	≥25	≥50
Optical Return Loss	dB	≥50	
Extinction Ratio	Standard	dB	≥18
	High ER Type	dB	≥20
Fiber Type	1550nm or 1590nm Port	-	PM1310/1550 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)
	Common&1310nm Port	-	Same Fiber or PM1310 Panda 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	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x ^L 35 (≤5W); ∅6.0x ^L 48 (5~10W)
	Metal Box	mm	H: ^L 90x ^W 12x ^H 10 (>10W); M: ^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) (C) - (C) (C)-H NN P NN -(C) C C NN -CC/CCC

Ref Wavelength	Pass Wavelength	1310nm Fiber	Ref. Fiber2	Comm Fiber	Type	Isolation	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
13=1310nm	15=1550nm	Y=Same Fiber	X=Same Fiber	Y=Same Fiber	H=High ER	I=High Iso	03=300mW	01=100W	M=Metal Box	2=PM1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
15=1550nm	59=1590nm	P=PM1310 Fiber	P=PM1310 Fiber	Blank for	Blank for	Blank for	1=1W	1=1kW	Blank for SST	P= PM1310 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
59=1590nm	13=1310nm	S=SMF-28 Fiber	S=SMF-28 Fiber	PM1310 Fiber	Standard	Standard	10=10W	10=10kW	or >10W	O=10/125 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

Blank for Y Type

