

1310/1490/1550nm 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 λ_1	nm	1310 \pm 30 & 1490 \pm 10	
Reflective Channel Wavelength Range λ_2	nm	1530~1570	
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	
Isolation over λ_2 @ Pass Channel	dB	≥ 25	
Optical Return Loss	dB	≥ 50	
Extinction Ratio	dB	≥ 18	≥ 20
Fiber Type	-	PM1310 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.
 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
13= 1310nm	34=1310+1490nm	X= X Type	H= High ER	03=300mW	01=100W	M= Metal Box	2=PM1310 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
15= 1550nm	45=1490+1550nm	Blank for Y Type	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
34=1310+1490nm	15= 1550nm		Standard	10=10W	10=10kW	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
45=1490+1550nm	13= 1310nm			20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

