

1480/1550/1590nm 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	1530-1580, 1570-1610	
Reflective Channel Wavelength Range λ_2	nm	1450-1490	
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	-	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	$^{\circ}\text{C}$	0~70	
Storage Temperature	$^{\circ}\text{C}$	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35 ($\leq 5\text{W}$); (\varnothing)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 ($\leq 10\text{W}$)

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - 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.
 - 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