

980/1310/1550/1590nm 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 ER Type
Pass Channel Wavelength Range λ_1	nm	1310+/-20, 1530-1580, 1570-1610	
Reflective Channel Wavelength Range λ_2	nm	965-1000	
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	≥30	
Optical Return Loss	dB	≥45	
Extinction Ratio	dB	≥18	≥20
Fiber Type	Signal 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 Port	-	Same Fiber or PM980 Fiber
	Pump Port	-	Same Fiber, PM980 Fiber or HI1060 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	(\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 0.5dB 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-98NN-	C	(C)	(C)	(C)-H NN	P NN	-(C)	C	C	NN	-CC/CCC		
<i>Signal Wavelength</i>	<i>Pump Fiber</i>	<i>Pump Fiber2</i>	<i>Comm Fiber</i>	<i>Type</i>	<i>Average Power</i>	<i>Peak Power</i>	<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>	<i>Connector Type</i>	
15=1550nm	Y=Same Fiber	X=Same Fiber	M=PM980 Fiber	H= High ER	03=300mW	01=100W	M=Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
59=1590nm	P=PM980 Fiber	P=PM980 Fiber	Blank for Same 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
13=1310nm	S=HI1060 Fiber	S=HI1060 Fiber		Standard	10=10W	10=10kW	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
		Blank for Y Type			20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

