

1020~1120/1310~1590nm 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 \pm 20, 1530-1580, 1570-1610	
Reflective Channel Wavelength Range λ_2	nm	1020 \pm 10, 1030 \pm 10, 1040 \pm 10, 1053 \pm 10, 1064 \pm 10, 1080 \pm 10, 1092 \pm 5, 1120 \pm 5	
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	Signal Port	-	PM1310/1550 Panda Fiber, 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W), 25/250um PMDC Fiber (R),
	Common & 1um Port	-	Same Fiber or PM980 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	$^{\circ}\text{C}$	0~50	
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)12x(H)10 ($> 10\text{W}$); (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 0.5dB 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-NNNN -	C	(C)	(C)	C-H	NN	P NN	-(C)	C	C	NN	-CC/CCC	
Ref WL	Pass WL	1um Fiber	Ref. Fiber2	Comm Fiber	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
06=1064nm	15=1550nm	Y=Same Fiber	X=Same Fiber	Y=Same Fiber	S=Standard	03=300mW	01=100W	M=Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
03=1030nm	59=1590nm	P=PM980 Fiber	P=PM980 Fiber	Blank for PM980	H=High ER	1= 1W	1= 1kW	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
05=1053nm	13=1310nm	S=H11060 Fiber	S=H11060 Fiber	Fiber		10=10W	10=10kW	or >10W	W=15/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12=1120nm			Blank for Y Type			20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector