

1550/2000nm High Power PM WDM Filter



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	1900 \pm 10, 1950 \pm 20, 2000 \pm 30, 2050 \pm 20, 2070 \pm 10	
Reflective Channel Wavelength Range λ_2		nm	1530 \pm 20, 1550 \pm 20, 1570 \pm 20, 1590 \pm 20	
Insertion Loss	Pass Channel@ λ_1	dB	\leq 1.4	\leq 1.6
	Reflective Channel@ λ_2	dB	\leq 1.4	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@ λ_2	dB	\geq 25	
	Reflective Channel@ λ_1	dB	\geq 12	
Optical Return Loss		dB	\geq 45	
Directivity		dB	\geq 50	
Extinction Ratio		dB	\geq 18	\geq 20
Fiber Tensile Load		N	5	
Fiber Type	Common & Pass Port	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
	Ref Port (1550nm)	-	Same Fiber, Corr. SM Fiber or PM1550 Fiber	
Max. Optical Power (CW)		W	1, 2, 3, 5, 10	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing) 5.5x35 (\leq 5W); (\varnothing) 6.0x48 (5~8W)	
	Metal Box	mm	(L)90x(W)12x(H)10 (>8W); (L)120x(W)12x(H)10 (\leq 8W)	

- 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) -HP	NN	- (C)	C	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Ref.1 Fiber	Ref.2 Fiber	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
53-1530nm	20-2000nm	Y= Same Fiber	Y= Same Fiber	H=High ER	1- 1W	M=Metal Box	2- PM1550 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
15-1550nm	19-1950nm	S= Corr. SM Fiber	S= Corr. SM Fiber	Blank for	5- 5W	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
57-1570nm	25-2050nm	P= PM1550 Fiber	P= PM1550 Fiber	Standard	7-7W	or >8W	O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
59-1590nm	90-1900nm		Blank for Y Type		10-10W		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector