

1480/1550/1590nm High Power PM WDM Filter

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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. Optical Power (CW)	W	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.
 3. 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	Pump Fiber	Pump Fiber2	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
14=1480nm	15=1550nm	P= Same Fiber	P= Same Fiber	H= High ER	1= 1W	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	5=5W	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	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
					20=20W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector