1310/1490/1550nm High Power PM WDM Filter

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 λ1		nm	1310±30 & 1490±10	
Reflective Channel Wavelength Range λ2		nm	1530~1570	
Insertion Loss over λ1 @ Pass Channel		dB	≤1.0	≤1.2
Insertion Loss overλ2 @ Reflective Channel		dB	≤0.8	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation over λ1 @ Reflective Channel		dB	≥12	
Isolation over λ2 @ Pass Channel		dB	≥25	
Optical Return Loss		dB	≥50	
Extinction Ratio		dB	≥18	≥20
Fiber Type		-	PM1310 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	(Ø)5.5x35 (≤5W); (Ø)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 0.3dB 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) - HP NN - (C) C C NN -CC/CCC

Ref Wavelength	Pass Wavelength	Configuration	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
13= 1310nm	34=1310+1490nm	X= X Type	H= High ER	1= 1W	M=Metal Box	2=PM1310 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
15= 1550nm	45=1490+1550nm	Blank for Y Type	Blank for Standard	5= 5W	Blank for SST or >10W	O=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
34=1310+1490nm	15= 1550nm			10=10W		T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
45=1490+1550nm	13= 1310nm			20=20W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector