1310/1550/1590nm 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 Isolation
Pass Channel Wavelength Range λ1		nm	1530-1580, 1570-1610	
Reflective Channel Wavelength Range λ2		nm	1270-1350	
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	≥45
Optical Return Loss		dB	≥50	
Extinction Ratio	Standard	dB	≥18	
	High ER Type	dB	≥20	
Fiber Type	1550/1590nm Port	-	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)	
	Common Port	-	Same Fiber or PM1310 Fiber	
	1310nm Port	-	Same Fiber, PM1310 Fiber or SMF-28 Fiber	
Polarization Alignment		-	Slow Axis	
Fiber Tensile Load		N	5	
Max. Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Operating Temperature		°C	0~70	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	Ø5.5xL35 (≤5W); Ø6.0xL50 (5~10W)	
	Metal Box	mm	L120xW12xH10 (≤10W)	

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

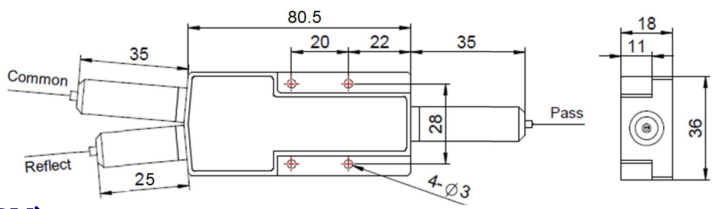
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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.

Package Dimension (>10W)



Ordering Information (PN)

FPWM-NN NN - C (C) (C) (C) (C)-HPNN - (C) C C NN -CC/CCC

Ref Wavelength	Pass Wavelength	Ref. Fiber1	Ref. Fiber2	Comm Fiber	Type	Isolation	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
13=1310nm	15=1550nm	Y=Same Fiber	X=Same Fiber	M=PM1550 Fiber	H= High ER	I= High Iso	1= 1W	M=Metal Box	2=PM1310 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
15=1550nm	59=1590nm	P=PM1310 Fiber	P=PM1310 Fiber	Blank for	Blank for	Blank for	5= 5W	Blank for SST	M=PM1550 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
59=1590nm	13=1310nm	S=SMF-28 Fiber	S=SMF-28 Fiber	Same Fiber	Standard	Standard	10=10W	or >10W	O=10/125 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
			Blank for Y Type				20=20W		T=12/130 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector