

1480/1550/1590nm High Power PM WDM Filter

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



SPECIFICATIONS

Parameters	Unit	Standard	High Isolation	
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	≥ 45	
Optical Return Loss	dB	≥ 50		
Extinction Ratio	Standard	≥ 18		
	High ER Type	≥ 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, 30, 40, 50, 60		
Operating Temperature	$^{\circ}\text{C}$	0~70		
Storage Temperature	$^{\circ}\text{C}$	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	$\varnothing 5.5 \times L35$ ($\leq 5\text{W}$); $\varnothing 6.0 \times L50$ (5~10W)	
	Metal Box	mm	$L120 \times W12 \times H10$ ($\leq 10\text{W}$)	

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

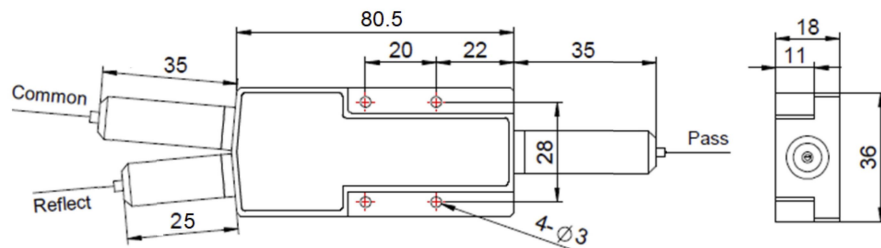
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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 (\triangleright 10W)



ORDERING INFORMATION (PN)

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

Ref Wavelength	Pass Wavelength	Pump Fiber	Mode	Pump Fiber2	Type	Isolation	Optical Power	Average Power (Ref)	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
14=1480nm	15=1550nm	P= Same Fiber	M= Mux	P= Same Fiber	H= High ER	I= High Iso	1= 1W	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	D= Demux	S= Corr. SM Fiber	Blank for	Blank for	5=5W	2= 2W	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 Both	Blank for Y Type	Standard	Standard	10=10W	5=5W	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
						20=20W	Blank for Same to Pass		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

