1900~1950/2050~2150nm PM WDM Filter for Pulse Power

FEATURES

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

APPLICATIONS

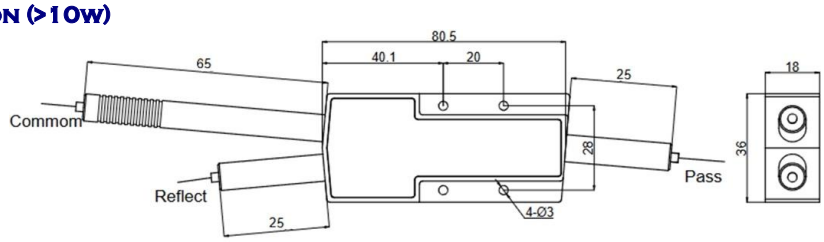
- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

SPECIFICATIONS

Parameters		Unit	Standard	High Isolation
Pass Channel Wavelength Range λ1		nm	2050±10, 2070±10, 2090±10, 2110±10	
Reflective Channel Wavelength Range λ2		nm	1900±10, 1930±20, 1950±20	
Insertion Loss	Pass Channel@λ1	dB	≤1.4	≤1.6
	Reflective Channel@λ2	dB	≤1.2	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation	Pass Channel@λ2	dB	≥25	≥45
	Reflective Channel@λ1	dB	≥12	
Optical Return Loss		dB	≥45	
Directivity		dB	≥50	
Extinction Ratio	Standard	dB	≥18	
	High ER Type		≥20	
Fiber Tensile Load		N	5	
Fiber Type		-	PM1550 Panda Fiber or PM1950 Fiber (V)	
			10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
Max. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10, 20, 30, 50, 60	
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Operating Temperature		°C	0~50	
Storage Temperature		°C	-20~75	
Package Dimension	Stainless Steel Tube (SST)	mm	Ø5.5xL38 (≤5W); Ø6.0xL50 (5~8W)	
	Metal Box	mm	L120xW12xH10 (≤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.
6. Package size may be different for different optical power and configurations.

PACKAGE DIMENSION (>10W)



ORDERING INFORMATION (PN)

FPWM-NN NN -(C) (C) (C) (C) -H NN PNN (NN) - (C) C C NN - CC/CCC

Ref Wavelength	Pass Wavelength	Configuration	Mode	Type	Isolation	Average Power	Peak Power	Average Power (Ref)	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
90=1900nm	25=2050nm	X=X Type	M= Mux	H=High ER	I= High Iso	03=300mW	01= 100W	1= 1W	M=Metal Box	2= PM1550 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
93=1930nm	27=2070nm	Blank for Y Type	D= Demux	Blank for Standard	Blank for	1= 1W	1=1kW	2= 2W	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
19=1950nm	29=2090nm		Blank for Both		Standard	5= 5W	5=5kW	5=5W	or >10W	O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	2110=2110nm					10=10W	10=10kW	Blank for Sameto Pass		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector