

## 1020~1120/1310~1590nm 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 $\lambda_1$	nm	1310 $\pm$ 20, 1530-1580, 1570-1610	
Reflective Channel Wavelength Range $\lambda_2$	nm	1020 $\pm$ 10, 1030 $\pm$ 10, 1040 $\pm$ 10, 1053 $\pm$ 10, 1064 $\pm$ 10, 1080 $\pm$ 10, 1092 $\pm$ 5, 1120 $\pm$ 5	
Insertion Loss over $\lambda_1$ @ Pass Channel	dB	$\leq 1.0$	$\leq 1.2$
Insertion Loss over $\lambda_2$ @ Reflective Channel	dB	$\leq 0.8$	
Configuration	Y Type	3-port	
	X Type	4-port (2x2 WDM)	
Isolation over $\lambda_1$ @ Reflective Channel	dB	$\geq 12$	
Isolation over $\lambda_2$ @ Pass Channel	dB	$\geq 25$	$\geq 45$
Optical Return Loss	Standard	$\geq 50$	
	High ER Type	$\geq 18$	
Extinction Ratio	Standard	$\geq 18$	
	High ER Type	$\geq 20$	
Fiber Type	Signal Port	PM1310/1550 Panda Fiber, PM980 Panda Fiber(H), 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W), 20/130um PMDC Fiber (W), 25/250um PMDC Fiber (R)	
	Common & 1um Port	Same Fiber, PM980 Fiber or HI1060 Fiber	
Polarization Alignment	-	Slow Axis	
Fiber Tensile Load	N	5	
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	$^{\circ}$ C	0~50	
Storage Temperature	$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	$\varnothing 5.5 \times L38$ ( $\leq 5W$ ); $\varnothing 6.0 \times L50$ (5~10W)	
	Metal Box	$L120 \times W12 \times H10$ ( $\leq 10W$ )	

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

2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

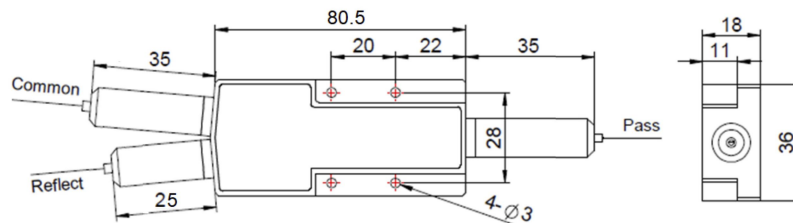
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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 the

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)

Ref WL	Pass WL	1um Fiber	Mode	Ref. Fiber2	Comm Fiber	Type	Isolation	Average Power	Peak Power	Average Power (Ref)	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
06=1064nm	15=1550nm	Y=Same Fiber	M= Mux	X=Same Fiber	Y=Same Fiber	S=Standard I= High Iso	03=300mW	01=100W	03= 300mW	M=Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector	
03=1030nm	59=1590nm	P=PM980 Fiber	D= Demux	P=PM980 Fiber	Blank for PM980	H=High ER	Blank for	1= 1W	1= 1kW	5=5W	Blank for SST	H=PM980 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
05=1053nm	13=1310nm	S=HI1060 Fiber	Blank for Both	S=HI1060 Fiber	Fiber	Standard	10=10W	10=10kW	Blank for Sameto	or >10W	0=10/125 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
12=1120nm				Blank for Y Type			20=20W	20=20kW	Pass		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

