

## 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

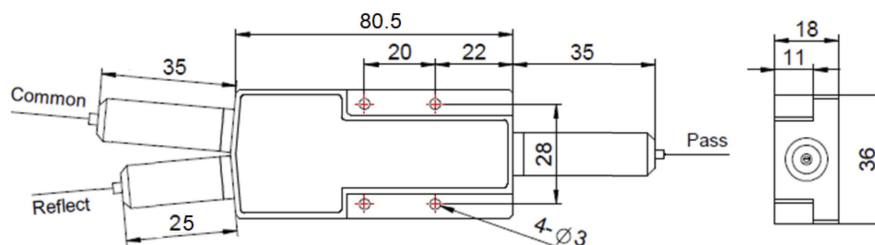


### SPECIFICATIONS

Parameters	Unit	Standard	High Isolation
Pass Channel Wavelength Range $\lambda_1$	nm	1530-1580, 1570-1610	
Reflective Channel Wavelength Range $\lambda_2$	nm	1450-1490	
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	dB	$\geq 50$	
Extinction Ratio	Standard	dB	$\geq 18$
	High ER Type	dB	$\geq 20$
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	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$\phi 5.5 \times L38$ ( $\leq 5W$ ); $\phi 6.0 \times L50$ (5~10W)
	Metal Box	mm	$L120 \times W12 \times H10$ ( $\leq 10W$ )

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.
  - High ER type can only work in slow axis at pass port.

### PACKAGE DIMENSION ( $\geq 10W$ )



### ORDERING INFORMATION (PN)

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 Pass		R= 25/250 PMDC Fiber	3= 3mm Cable	20~2.0m	SC/UPC=SC/UPC Connector

