

## 1480/1550/1590nm 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 ER Type
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	$\geq 25$	
Optical Return Loss	dB	$\geq 50$	
Extinction Ratio	dB	$\geq 20$	$\geq 22$
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)	mW	300	
Operating Temperature	$^{\circ}\text{C}$	0~70	
Storage Temperature	$^{\circ}\text{C}$	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	( $\varnothing$ )5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

- 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. 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.
  4. High ER type can only work in slow axis at pass port.

### ORDERING INFORMATION (PN)

FPWM- NN	NN	- C	(C)	(C)	- (C)	C	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Pump Fiber	Pump Fiber2	Type	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
14=1480nm	15=1550nm	P= Same Fiber	P= Same Fiber	H= High ER	M= Metal Box	2=PM1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
15=1550nm	59=1590nm	S= Corr. SM Fiber	S= Corr. SM Fiber	Blank for	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 Y Type	Standard		T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
						R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector