

1625/1650nm PM WDM Filter for Pulse Power

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

Fiber Type - 12/130um PMDC Fiber (T), 20/130um PMDC Fiber	Parameters		Unit	Standard	High ER Type		
Insertion Loss over $λ1$ @ Pass ChanneldB≤1.0≤1.2Insertion Loss over $λ2$ @ Reflective ChanneldB≤0.8Configuration	Pass Channel Wavelength Range λ1			1620~1630			
Insertion Loss overλ2 @ Reflective ChanneldB≤0.8ConfigurationY Type-3-portX Type-4-port (2x2 WDM)Isolation over λ1 @ Reflective ChanneldB≥12Isolation over λ2 @ Pass ChanneldB≥25Optical Return LossdB≥50Extinction RatiodB≥18≥20PM1550 Panda Fiber, 10/125um PMDC Fiber (T), 20/130um PMDC Fiber (T), 20/130um PMDC Fiber (T), 20/130um PMDC Fiber (T), 25/300um PMDC Fiber (T),	Reflective Channel Wavelength Range λ2			1640~1655			
Y Type-3-portX Type-4-port (2x2 WDM)Isolation over λ1 @ Reflective ChanneldB≥12Isolation over λ2 @ Pass ChanneldB≥25Optical Return LossdB≥50Extinction RatiodB≥18≥20PM1550 Panda Fiber, 10/125um PMDC Fiber (Compared to the property)Fiber Type-12/130um PMDC Fiber (T), 20/130um PMDC Fiber (R), 25/300um PMDC Fiber (R), 2	Insertion Loss over λ:	@ Pass Channel	dB	≤1.0	≤1.2		
ConfigurationX Type-4-port (2x2 WDM)Isolation over λ1 @ Reflective ChanneldB ≥ 12 Isolation over λ2 @ Pass ChanneldB ≥ 25 Optical Return LossdB ≥ 50 Extinction RatiodB ≥ 18 ≥ 20 PM1550 Panda Fiber, 10/125um PMDC Fiber (T), 20/130um PMDC Fiber (T), 20/130um PMDC Fiber (T), 20/130um PMDC Fiber (R), 25/300um P	Insertion Loss overλ2	@ Reflective Channel	dB	≤0.8			
X Type - 4-port (2x2 WDM) Isolation over λ1 @ Reflective Channel dB ≥12 Isolation over λ2 @ Pass Channel dB ≥25 Optical Return Loss dB ≥18 ≥20 Extinction Ratio dB ≥18 ≥20 PM1550 Panda Fiber, 10/125um PMDC Fiber (T), 20/130um PMDC Fiber (T), 20/130um PMDC Fiber (T), 20/130um PMDC Fiber (T), 25/300um PMDC Fiber (T	Configuration	Y Type	-	3-port			
Isolation over λ2 @ Pass Channel dB ≥25 Optical Return Loss dB ≥50 Extinction Ratio dB ≥18 ≥20 PM1550 Panda Fiber, 10/125um PMDC Fiber (€) Fiber Type - 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (€), 25/300um PMDC Fiber (€), 25		X Type	-	4-port (2x2 WDM)			
Optical Return Loss dB ≥50 Extinction Ratio dB ≥18 ≥20 PM1550 Panda Fiber, 10/125um PMDC Fiber (C) Fiber Type - 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (R), 25/300um	Isolation over λ1 @ R	eflective Channel	dB	≥12			
Extinction Ratio dB ≥18 ≥20 PM1550 Panda Fiber, 10/125um PMDC Fiber (C) Fiber Type - 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Z), 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (R), 25/3	Isolation over λ2 @ Pass Channel			≥25			
PM1550 Panda Fiber, 10/125um PMDC Fiber (CF), 20/130um PMDC Fiber (T), 20/130um PMDC Fiber (T), 20/130um PMDC Fiber (R), 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (R),	Optical Return Loss			≥50			
Fiber Type - 12/130um PMDC Fiber (T), 20/130um PMDC Fiber 25/250um PMDC Fiber (R), 25/300um PMDC Fiber Polarization Alignment - Slow Axis	Extinction Ratio		dB	≥18	≥20		
25/250um PMDC Fiber (R), 25/300um PMDC Fiber Polarization Alignment - Slow Axis				PM1550 Panda Fiber, 10/125um PMDC Fiber (O),			
Polarization Alignment - Slow Axis	Fiber Type			12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q)			
				25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)			
Fiber Tensile Load N 5	Polarization Alignment			Slow Axis			
	Fiber Tensile Load			5			
Max. Average Optical Power W 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20	Max. Average Optical Power			0.3, 0.5, 1, 2, 3, 5, 10, 15, 20			
Max. Peak Power for pulse kW 0.1, 1, 2, 3, 5, 10, 15, 20	Max. Peak Power for pulse			0.1, 1, 2, 3, 5, 10, 15, 20			
Operating Temperature °C 0~70	Operating Temperature			0~70			
Storage Temperature °C -40~85	Storage Temperature			-40~85			
Stainless Steel Tube (SST) mm (Ø)5.5x35 (≤5W); (Ø)6.0x48 (5~10W	Package Dimension	Stainless Steel Tube (SST)	mm	m (∅)5.5x35 (≤5W); (∅)6.0x48 (5~10W)			
Metal Box mm (L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (5		Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (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. 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.

ORDERING INFORMATION (PN)

FPWM-NN	NN	- (C)	(C) -	HNN P	NN -	- (C)	С	С	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Configuration	Туре	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
<mark>16=</mark> 1650nm	<mark>62=</mark> 1625nm	X= X Type	H= High ER	<mark>03</mark> =300mW	<mark>01</mark> =100W	M=Metal Box	2=PM1550 Fiber	B= Bare Fiber	<mark>05=</mark> 0.5m	N=Without Connector
		<i>Blank</i> for Y Type	<i>Blank</i> for	<mark>1</mark> = 1W	1= 1kW	<i>Blank</i> for SST	0= 10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
			Standard	10-10W	10=10kW	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
				20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector



