

1310/1550~1590nm Multimode 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 Add/Drop Multiplexing
- Telecommunication Networks
- Metro Networks
- CATV Networks



SPECIFICATIONS

Parameters	Unit	Value	
Pass Channel Wavelength Range λ_1	nm	1550+/-20, 1590+/-20	
Reflective Channel Wavelength Range λ_2	nm	1310+/-20	
Insertion Loss	Pass Channel@ λ_1	dB	≤ 1.0
	Reflective Channel@ λ_2	dB	≤ 0.8
Isolation	Pass Channel@ λ_2	dB	≥ 25
	Reflective Channel@ λ_1	dB	≥ 12
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Optical Return Loss	dB	≥ 30	
Directivity	dB	≥ 35	
Fiber Type	-	50/125um or 62.5/125um MM Fiber 50/125um MM OM3 Fiber 105/125um MM Fiber	
Maximum Average Power	W	1, 2, 3, 5, 10, 15, 20, 25, 30	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(\varnothing)5.5x35 ($\leq 5W$); (\varnothing)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 ($\leq 10W$)

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 10dB lower.
 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.
 5. Specifications are tested at low order modes.

ORDERING INFORMATION (PN)

FMFM-	NN	(C)	-H NN	P NN	- (C)	C	C	NN	- CC/CCC
Ref Wavelength	Pass Wavelength	Configuration	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
13- 1310nm	15- 1550nm	X- X Type	03-300mW	01-100W	M= Metal Box	5- 50/125um MM Fiber	B= Bare Fiber	05-0.5m	N= Without Connector
15- 1550nm	13- 1310nm	Blank for Y Type	5- 5W	1- 1kW	Blank for SST	6- 62.5/125um MM Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector
59- 1590nm	59- 1590nm		10-10W	10-10kW	or >10W	3- OM3 MM Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
			30-30W	20-20kW		A= 105/125um, NA=0.22	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector
						B=105/125um, NA=0.15			