

## 780~850/1300~1590nm 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 $\lambda_1$	nm	1300+/-20, 1550+/-20, 1590+/-20	
Reflective Channel Wavelength Range $\lambda_2$	nm	780+/-10, 793+/-10, 808+/-10, 830+/-10, 850+/-10	
Insertion Loss	Pass Channel@ $\lambda_1$	dB	$\leq 1.2$
	Reflective Channel@ $\lambda_2$	dB	$\leq 1.0$
Isolation	Pass Channel@ $\lambda_2$	dB	$\geq 25$
	Reflective Channel@ $\lambda_1$	dB	$\geq 12$
Configuration	Y Type	-	3-port
	X Type	-	4-port (2x2 WDM)
Optical Return Loss	dB	$\geq 30$	
Directivity	dB	$\geq 35$	
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)12x(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.
  6. Devices with other wavelength range are also available per request.

### ORDERING INFORMATION (PN)

FMFM- NN	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
78-780nm	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
81-808nm	13-1300nm	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
83-830nm	59-1590nm		10-10W	10-10kW	or >10W	3- OM3 MM Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
85-850nm			30-30W	20-20kW		A- 105/125um, NA=0.22 B- 105/125um, NA=0.15	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector