

## 1083nm High Power PM Bandpass Filter/Isolator Hybrid for Pulse Power

### FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

### APPLICATIONS

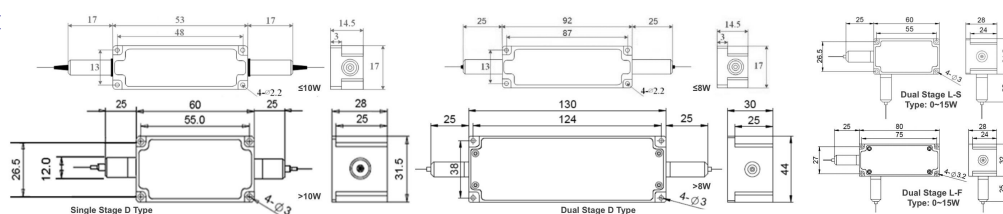
- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks

### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage D Type	Dual Stage L Type
Center Wavelength	nm	1083		
Min. Pass Band Width @ 0.5dB	nm	8.0		
Stop Wavelength (ASE)	nm	1000~1076&1090~1150		
Insertion Loss@23℃	dB	≤1.5 (Typ. 0.8)	≤1.8 (Typ. 1.0)	≤1.8 (Typ. 1.2)
Signal Isolation (23℃)	dB	≥22	≥38	
Stop Wavelength (ASE) Isolation	dB	Standard:≥25; High Isolation: ≥45		
ASE Direction	-	F: Forward, B: Backward, T: Two-way		
Configuration	-	D: 2-port, Y: 3-port, X: 4-port		
Optical Return Loss	dB	≥45		
Extinction Ratio	dB	≥18		
Work Mode	S Type	-	Can only work in slow axis	
	F Type		Can work both in slow axis and fast axis	
Fiber Type	Input&Output	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)	
			10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)	
	ASE Guide Out (Y/X Type)	-	20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
Max. Signal Average Optical Power	W	Same Fiber, Corr. SM Fiber or MM Fiber		
Max. Signal Average Optical Power	W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60		
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20		
Max. Backward Signal Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10		
Max. ASE Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10		
Operating Temperature	℃	0~50		
Storage Temperature	℃	-20~75		

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Suggest to use Y or X type if blocked optical power is >1W.
  - 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.
  - Package size may be different for different fiber type, optical power and configurations.

### PACKAGE DIMENSION



### ORDERING INFORMATION (PN)

Stage	Bandwidth	ASE Type	ASE Iso	Work Mode	Fwd ASE Fiber	Bwd ASE/Signal Fiber	Bwd Signal	Signal Ave. Power	Peak Power	ASE/Bwd Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
D=D Type	80~8nm	B=Backward	I=High	S=S Type	Y=Same Fiber	Y=Same Fiber	Guide Out	05~500mW	01~100W	1=1W	2=PM980Fiber	B= Bare fiber	05~0.5m	N=Without Connector
L=L Type		T=Two-way	Isolation	F=F Type	A=105/125um Fiber	A=105/125um Fiber	Y=Yes	1=1W	1=1kW	5=5W	E=PM1060L Fiber	L= Loose Tube	10~1.0m	FC/APC=FC/APC Connector
Blank for	Blank for Forward	Blank for			N=None	5=50/125um Fiber	Blank for No	10=10W	5=5kW	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15~1.5m	LC/PC=LC/PC Connector
Single		Standard			Blank for D Type	Blank for None/D Type		20~20W	10=10kW	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20~2.0m	SC/APC=SC/APC Connector

