

## 2090nm PM Bandpass Filter/Isolator Hybrid

### FEATURES

- High Isolation
- Low Insertion Loss
- Various Bandwidth
- High Reliability and Stability
- Compact Package

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Research Labs
- Laser System



### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage
Center Wavelength	nm	2090	
Min. Pass Band Width @ 0.5dB	nm	20.0	
Stop Band @ 25dB	nm	2030-2070 & 2110-2150	
Insertion Loss@23°C	dB	≤2.3	≤2.8
Signal Isolation (23°C)	dB	≥14	≥25
Configuration	D Type	-	2-port
	Y Type	-	3-port, (Blocked Wavelength Guide Out)
	X Type	-	4-port, (Both Block Wavelength Guide Out)
Fiber Type at 3 <sup>rd</sup> or 4 <sup>th</sup> Port (Y/X Type)	-	Same Fiber, Corr. SM Fiber or 50/125um MM Fiber	
ASE Direction	Forward Type	-	Bandpass Filter is before isolator
	Backward Type	-	Bandpass Filter is after isolator
	Twin Type	-	Bandpass Filter is at both sides of isolator
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	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
Max. Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	(Ø)5.5x35
Dimension	Metal Box	mm	(L)120x(W)12x(H)10

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB 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.
  - 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.

### ORDERING INFORMATION (PN)

Stage	Bandwidth	ASE Type	Work Mode	3rd Port Fiber	4th Port Fiber	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single Stage	200~20nm	F= Forward	S= S Type	Y=Same Fiber	Y=Same Fiber	M= Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D= Dual Stage		B=Backward	F= F Type	S=Corr. SM Fiber	S=Corr. SM Fiber	Blank for SST	V=PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		T=Twin		5=50/125um Fiber	5=50/125um Fiber		O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
				Blank for D Type	Blank for D&Y Type		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector