

# 1500~1600/2030~2070nm High Power WDM/Iso/Tap PM Hybrid Filter

## FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

## APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

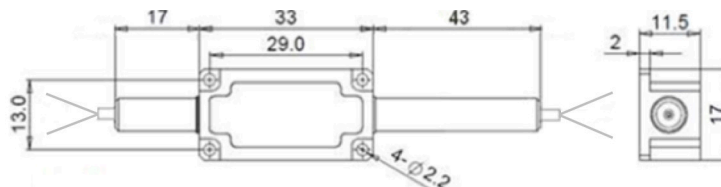


## SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	H Stage
Signal Wavelength Range $\lambda_1$	nm	2030 $\pm$ 20, 2050 $\pm$ 20, 2070 $\pm$ 10		
Pump Wavelength Range $\lambda_2$	nm	1530 $\pm$ 20, 1550 $\pm$ 20, 1570 $\pm$ 20, 1590 $\pm$ 20		
Excess Loss	Signal Channel@ $\lambda_1$	dB	$\leq$ 1.8	$\leq$ 2.2
Insertion Loss	Pump Channel@ $\lambda_2$	dB	$\leq$ 1.0	
Signal Tap Ratio		%	1 $\pm$ 0.5, 2 $\pm$ 0.7, 5 $\pm$ 1, 10, 20, 30, 40, 50	
Signal Isolation (Signal Channel@ $\lambda_1$ , 23°C)		dB	$\geq$ 10	$\geq$ 25
Wavelength Isolation	Signal Channel@ $\lambda_2$	dB	$\geq$ 25	
	Pump Channel@ $\lambda_1$	dB	$\geq$ 12	
Optical Return Loss		dB	$\geq$ 45	
Extinction Ratio		dB	$\geq$ 18	
Pump Type	S Type	-	Forward Pump, Only Slow Axis Working	
	F Type	-	Forward Pump, Both Axis Working	
	B Type	-	Backward Pump, Only Slow Axis Working	
Fiber Type	Common & Signal Port	-	PM1550 Panda Fiber or PM1950 Fiber (V)	
		-	10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
	Pump & Tap Port	-	Same Fiber or Corr. SM Fiber	
Fiber Tensile Load		N	5	
Maximum Optical Power (CW)		W	1, 2	3, 5, 10
Operating Temperature		°C	0~50	
Storage Temperature		°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	$(\varnothing)$ 5.5x40	
	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.
  - 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 DIMENSION (H STAGE)



## ORDERING INFORMATION (PN)

Pump WL	Signal WL	Stage	Pump Type	Tap Ratio	Pump Fiber	Tap Fiber	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
53=1530nm	23=2030nm	S=Single Stage	S=S Type	01=1%	P=Same Fiber	P=Same Fiber	1=1W	M=Metal Box	2=PM1550 Fiber	B=Bare Fiber	05=0.5m	N=Without Connector
15=1550nm	25=2050nm	D=Dual Stage	F=F Type	05=5%	S=Corr. SM Fiber	S=Corr. SM Fiber	3=3W	Blank for SST	V=PM1950 Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector
57=1570nm	27=2070nm	H=H Stage	B=B Type	10=10%			5=5W	or >2W	O=10/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
59=1590nm				50=50%			10=10W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector