

## Optical Inline Polariser for Pulse Power

### FEATURES

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

### APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Dispersion Compensation
- Research Labs



### SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength	nm	1310, 1480, 1550, 1590	
Bandwidth	nm	+/-30	
Insertion Loss @ 23°C	(Typ.)	dB	0.5
	(Max.)	dB	0.8
Extinction Ratio @ 23°C	(Typ.)	dB	26
	(Min.)	dB	23
Optical Return Loss	dB	≥50	
Configuration	D Type	-	2-port, Standard
	Y Type	-	3-port, Fast axis blocked light guide out
Fiber Type at 3 <sup>rd</sup> Port (Only for Y Type)	-	Same Fiber, Corr. SM Fiber or 50/125um MM Fiber	
Fiber Type	SM Fiber	-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)
	PM Fiber	-	PM1310/1550 Panda Fiber, 10/125um PMDC Fiber (O), 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)
Fiber Tensile Load	N	5	
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x35 (≤5W); ∅6.0x48 (5~10W)
	Metal Box	mm	L90x <sup>W</sup> 12x <sup>H</sup> 10 (>10W); L120x <sup>W</sup> 12x <sup>H</sup> 10 (≤10W)

- 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 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, configuration and optical power

### ORDERING INFORMATION (PN)

FILP-NNNN	- C	C	(C)	-H NN	P NN	-(C)	(C)	C	NN	- CC/CCC
Center Wavelength	Input Fiber	Output Fiber	3rd Port Fiber	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1310-1310nm	P= PM Fiber	P= PM Fiber	P= Same Fiber	03-300mW	01-100W	M= Metal Box	O=10/130 DC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
1480-1480nm	S=SM Fiber	S=SM Fiber	S=Corr. SM Fiber	1= 1W	1= 1kW	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1550-1550nm			S=50/125um MM Fiber	5= 5W	5= 5kW	or >10W	G=25/300 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1590-1590nm			Blank for D Type	10=10W	10=10kW		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

or PM1310/1550 Fiber