# 750~850nm High Power Optical Inline Polariser

## 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 | 760, 780, 793, 808, 830, 850 |
| Bandwidth | | nm | +/-10 |
| Insertion Loss @ 23°C | (Typ.) | dB | 0.8 |
| | (Max.) | dB | 1.4 |
| 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 3rd Port (Only for Y Type) | | - | Same Fiber, Corr. SM Fiber or 50/125um MM Fiber |
| Fiber Type | SM Fiber | - | HI780 Fiber or 780-HP Fiber |
| | PM Fiber | - | PM850 Fiber or PM780-HP Fiber |
| Fiber Tensile Load | | N | 5 |
| Max. Optical Power (CW) | | W | 1, 2, 3, 5, 10, 15, 20 |
| Operating Temperature | | °C | 0~50 |
| Storage Temperature | | °C | -40~85 |
| Package Dimension | Stainless Steel Tube (SST) | mm | Ø5.5x35 (≤5W); Ø6.0x50 (5~10W) |
| | Metal Box | mm | L90xW12xH10 (>10W); L120xW12xH10 (≤10W) |

**Note:** 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. Suggest to use Y type if blocked optical power is >1W.

4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

5. 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.

6. Package size may be different for different fiber type, configuration and optical power

## Ordering Information (PN)

**FILP-NNN - C C (C) -HP NN - (C) (C) C NN - CC/CCC**

| Center Wavelength | Input Fiber | Output Fiber | 3rd Port Fiber | Optical Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|---|---|---|---|---|---|---|---|---|---|
| 780=780nm | P= PM Fiber | P= PM Fiber | P= Same Fiber | 1= 1W | M=Metal Box | 7= 780HP Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 793=793nm | S=SM Fiber | S=SM Fiber | S=Corr. SM Fiber | 5= 5W | *Blank* for SST | or PM780-HP Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 830=830nm | | | 5=50/125um MM Fiber | 10=10W | or >10W | *Blank* for HI780 Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| 850=850nm | | | *Blank* for D Type | 20=20W | | or PM850 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |