1550nm High Power Free Space Optical Isolator

FEATURES

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

APPLICATIONS

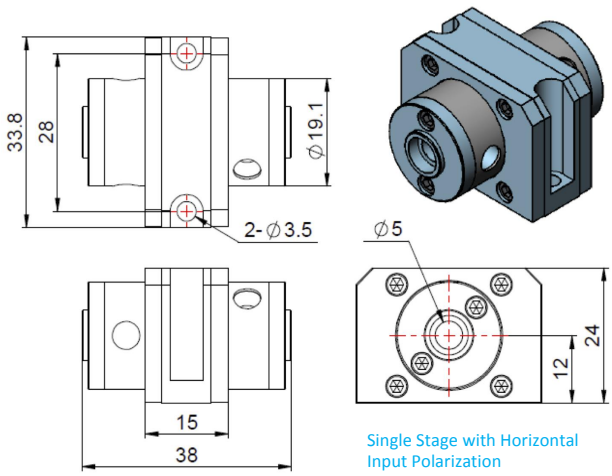
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

SPECIFICATIONS

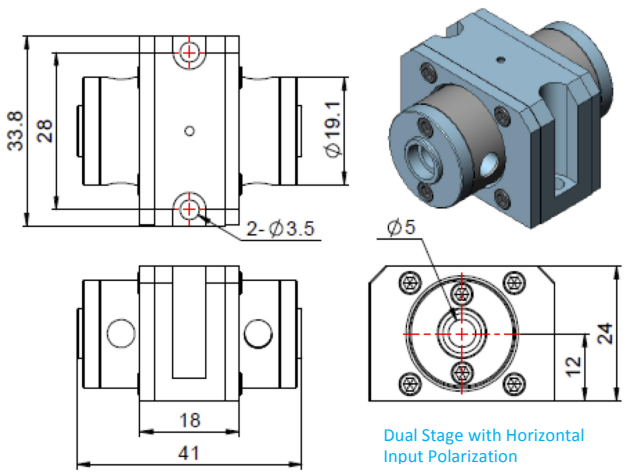
Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λc)	nm	1550	
Bandwidth	nm	+/-10	
Peak Isolation (Typ.)	dB	35	50
Isolation (23°C)	dB	≥25	≥40
Insertion Loss (Typ, 23°C)	dB	≤0.30	≤0.40
Insertion Loss (Max, 23°C)	dB	≤0.40	≤0.50
Clear Aperture	mm	(Φ)5.0	
Max. Input Beam Diameter (100%)	mm	4.7	
Work Mode	-	Polarization Sensitive	
Output Polarization	-	45° to Input Direction	90° to Input Direction
Maximum Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-10~65	

Note: 1. Devices for higher optical power and pulse power are also available.

PACKAGE DIMENSION



Single Stage with Horizontal Input Polarization



Dual Stage with Horizontal Input Polarization

ORDERING INFORMATION (PN)

FISF- **NNNN** **-** **C** **NN** **C** **-HP** **NN**

Center Wavelength
1550= 1550nm

Stage
S= Single Stage
D= Dual Stage

Clear Aperture
50=(Φ)5.0mm

Input Polarization
V= Vertical
H= Horizontal

Optical Power
1= 1W
3=W
10= 10W
20=20W