1550nm Free Space Optical Isolator for Pulse Power

FEATURES

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

APPLICATIONS

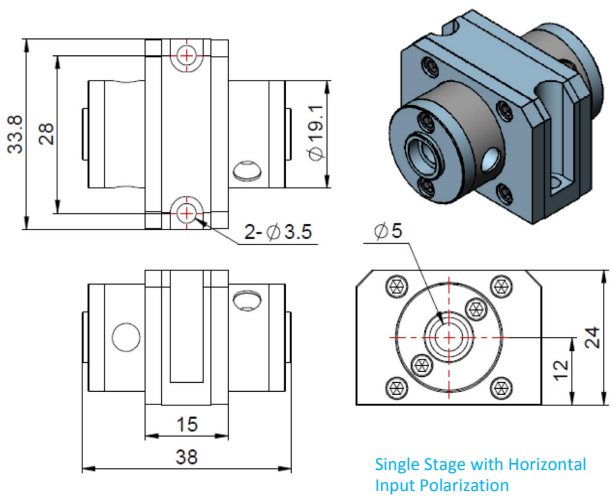
- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks

SPECIFICATIONS

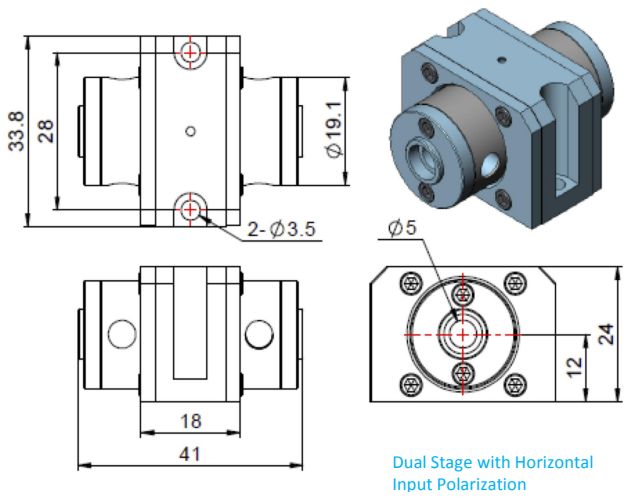
Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λc)	nm	1550	
Bandwidth	nm	+/-10	
Peak Isolation (Typ.)	dB	35	50
Isolation (23°C)	dB	≥25	≥40
Insertion Loss (Typ, 23°C)	dB	≤0.30	≤0.40
Insertion Loss (Max, 23°C)	dB	≤0.50	≤0.60
Clear Aperture	mm	(Φ)5.0	
Work Mode	-	Polarization Sensitive	
Max. Input Beam Diameter (100%)	mm	4.7	
Output Polarization	-	45° to Input Direction (Right)	90° to Input Direction
Maximum Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Max. Peak Power Density	J/cm^2	1	
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 C -H NN P NN

Center Wavelength	Stage	Clear Aperture	Input Polarization	Output Polarization	Average Power	Peak Power
1550= 1550nm	S= Single Stage	50=(Φ)5.0mm	V= Vertical	V= Vertical	03=300mW	01=100W
	D= Dual Stage		H= Horizontal	H= Horizontal	2=2W	1= 1kW
				Q= 45degree to Input	5=5W	5=5kW
					10=10W	20=20kW