

Optical Fibre Isolator

The optical fibre isolator is a passive optical device that only allows unidirectional light to pass through. Its working principle is based on the non-reciprocity of the Faraday rotating crystal, and the echo can be well isolated by the fibre isolator. YOFC's fibre isolator has the characteristics of high isolation, low loss, and high reliability.

Characteristics

- Low insertion loss
- High isolation
- High stability and reliability
- High return loss

Applications

- CATV system
- Communication system
- Optical fibre sensing system
- Test system



Specifications

Product Type	ISO-S-1550-1-1-50-XX-N	ISO-D-1550-1-1-50-XX-N
Operating Wavelength (nm)	1550	
Operating Bandwidth (nm)	± 20	
Optical Properties		
Power Handling (W)	5	
Isolation (dB)	≥ 29.00	≥ 46.00
Insertion Loss (dB)	≤ 0.45	≤ 0.60
Polarization Dependent Loss (dB)	≤ 0.10	≤ 0.15
Return Loss (dB)	≥ 55.00	≥ 55.00
Polarization Mode Dispersion (ps)	≤ 0.25	≤ 0.05
Environmental Properties		
Operating Temperature (°C)	-5 to +70	
Storage Temperature (°C)	-40 to +85	
Relative Humidity (RH%)	5 - 95	
Appearance		
Dimensions (mm)	Ø5.5×35.0, Ø5.5×30.0, 8.0×12.0×70.0	
Fibre Length (m)	1.0 or Customized	

*The parameters do not include a connector, and the fibre connector insertion loss is 0.33dB

*XX in the product type means dimensions