

Optical Isolator Spec



Optical isolators mainly use the Faraday effect of magnetic crystals to isolate reflected light, allowing only passive magnetic devices where light is transmitted in a single direction. Optical isolators are used to protect light sources from adverse effects from back-to-back reflections or signals, and back-to-back reflections can damage the laser or cause jumping, amplitude changes, or frequency shifts.

Features

- High Isolation.
- Low Insertion Loss
- Low Polarization-related Losses
- Compact
- High stability and reliability

Application

- Fiber Lasers
- Fiber Sensing
- Fiber Amplifier
- The field of optical communication
- Light test instrument



Performance Specifications

Parameters	Specifications		Unit
	Single level	Double level	
Operating Wavelength	1310 or 1550		-
Operating Wavelength Range	± 15 or ± 30		nm
Isolation(Typical)	≥ 42	≥ 52	dB
Min Isolation	≥ 28	≥ 46	dB
Insertion Loss(Typical)	0.35	0.4	dB
Insertion Loss	≤ 0.5	≤ 0.6	dB
Polarization Mode Dispersion	≤ 0.1	≤ 0.15	ps
Polarization Dependent Loss@23°C	0.2		dB
Optical Average Power	500		mW
Operating Temperature	-20~+70		°C
Storage Temperature	-40~+85		°C
Fiber Type	SMF-28e or customize		
Fiber Length	1.0 or customize		m
Connector	Customize		
Package size	$\phi 5.5 \times L35$		mm

* The temperature measurement environment is at 23°C

**If the connection head is increased, the insertion loss increases by 0.3dB and the return loss decreases by 5dB, which is reduced by 2dB for the protection product

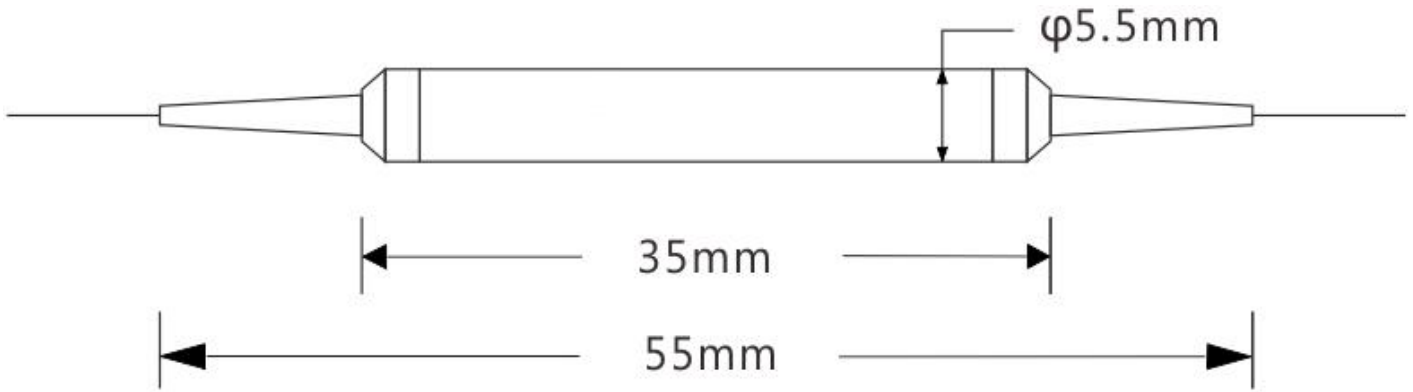
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Mechanical Dimensions



Order information:

ISO (Isolator) PN: ISO-XXXXXXXX-XX (ISO+9 Code+2 Serial Number)

ISO	X		XXXX		X		X		X		X		XX
	Type		Center Wavelength		Grade		Fiber Jacket		Fiber Length		Connector		
	S	Single Grade	0650	650	P	P Grade	0	250um Bare Fiber	0	0.5m	0	none	S N
	D	Dual Grade	0850	850	A	A Grade	1	0.9mm Loose	1	1.0m	1	SC/UPC	
			980	980	S	Special	S	Special	2	1.5m	2	SC/APC	
			1310	1310					3	2.0m	3	FC/UPC	
			1400	1400					4	2.5m	4	FC/APC	
			1490	1490					5	3.0m	5	LC/UPC	
			1550	1550					6	3.5m	6	LC/APC	
			1610	1610					7	0.7m	7	ST/UPC	
			000S	Special					8	1.2m	8	E2000	
									9	2.7m	9	MU	
									S	Special	S	Special	

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