

Fiber Optic Isolator



Description

Huihong Fiber optical isolator is a Faraday isolator. This optical isolator achieves passive isolation of linearly polarized light by combining a polarizing beam splitter cube with a garnet crystal faraday rotator. The optical path is epoxy-free, thereby enabling high-power applications.

Feature

- Low Insertion Loss
- High Isolation
- Ultra Low PDL & PMD
- Epoxy-Free in Optical Path

Specifications

Parameter		Unit	Single Stage		Dual Stage	
			p	a	p	a
Operation Wavelength		nm	1310+/-15 or 1550+/-15			
Peak Isolation	Min	nm	42	40	56	53
Isolation ($\lambda c \pm 15 \text{nm}, 23^\circ \text{C}$)	Min	nm	32	30	52	50
Isolation ($\lambda c \pm 15 \text{nm}, 0 \sim 70^\circ \text{C}$)	Min	nm	22	20	35	32
Peak Isolation Loss	Max	dB	0.3	0.5	0.5	0.7
Insertion Loss ($\lambda c \pm 15 \text{nm}, 0 \sim 70^\circ \text{C}$)	Max	dB	0.4	0.6	0.6	0.8
PDL ($\lambda c, 23^\circ \text{C}$)	Max	dB	0.05	0.1	0.1	0.15
Polarization Mode Dispersion	Max	ps	0.2	0.2	0.05	0.07
Return Loss (Input/ Output)	Min	dB	65/60	60/55	65/60	60/55
Power Handling	Max	mW	1000			
Fiber Type			Corning SMF-28 or Corning SMF-28e			
Operation Temperature		$^\circ \text{C}$	0~70			
Storage Temperature		$^\circ \text{C}$	-40~85			
Package		mm	$\Phi 5.5 \times L34$			

For detailed inquiry please contact our sales team at: sales@huihongfiber.com.