2 μm High Power Fiber Isolator

(patents pending)

Product Description

This 2 μm passive device transmits high power light from input fiber into output fiber while blocking the unwanted light from back reflection and scattering. Agiltron's proprietary magnetic-optics technology and advanced micro-optic technique enable industrial leading performance in power handling, low loss, reliability, and cost effective. Agiltron currently provides a full range of polarization-independent, polarization maintaining, and custom design versions with a broad wavelength coverage and various output beam diameters. We have experience to incorporate special fibers.

Features

- High Power Handling
- High Isolation
- High Reliability
- Low IL, PDL & TDL
- Cost Effective

Applications

- Laser Pump Source
- Optical Fiber Amplifier
- Laser Manufacturing
- laser Marking

Performance Specifications

FSOI High power Isolator	Min	Typical	Max	Unit
Operation Wavelength	1940	2000	2050	nm
Insertion Loss *		0.8	1.0	dB
Isolation	22	25		dB
Polarization Dependent Loss		0.2	0.3	dB
Polarization Mode Dispersion		0.1	0.2	ps
Return Loss	45	50		dB
Optical Power Handling**		0.5/1/2		W
Extinction ratio***	20	25		dB
Fiber Type		See Order Information		
Operation temperature		0~70		°C
Storage temperature		-10 to 60		°C
Storage Humidity		5% to 95% (No Condensation)		
Package Dimension (Body)		34x20x10.5		mm

Note:

* Measured without connectors

** Continuous operation, for pulse operation call

*** It is only available for PM isolator.

15 Presidential Way , Woburn, MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040

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Revision: 05-13-11

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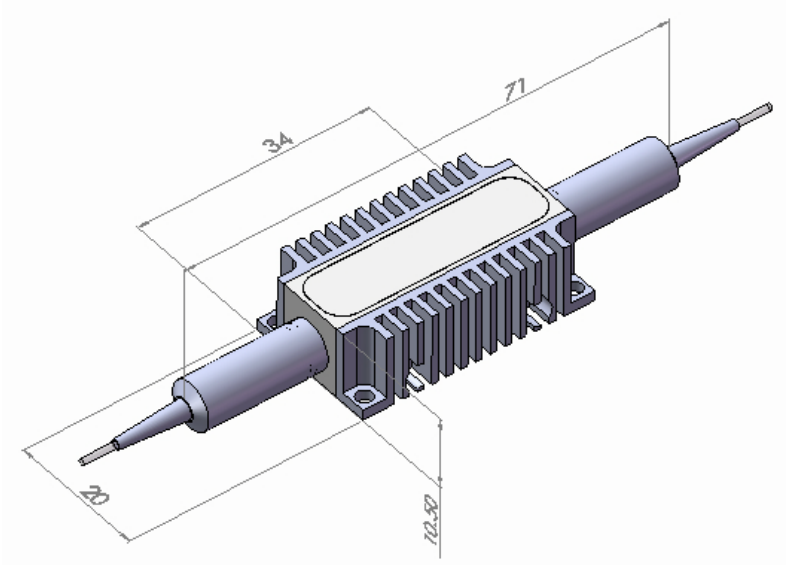
Mechanical Footprint Dimensions (mm)



Ordering Information

FSOI-	☐☐	☐	☐	☐	☐	☐	☐	☐
	Type	Wavelength	Power handling	Package	Fiber Type		Fiber Length	Connector
	Regular=11 PM=12 Special=00	1940=1 2000=2 2050=3 Special=0	1W=1 2W=2 500mW=3 5W=5 10W=6 Special=0	standard=1 Special=0	SMF28=2 PM 1550=5 Special=0	Bare fiber=1 900um loose tube=3 Armor cable=5 Special=0	0.25M=1 0.5M=2 1.0 M=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0

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