

2 μm High Power Fiber Isolator (50W CW) (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.



Performance Specifications

FSOI High power Isolator	Min	Typical	Max	Unit
Operation Wavelength	1940	2000	2050	nm
Insertion Loss *		1.2		dB
Isolation		25		dB
Polarization Dependent Loss		0.2		dB
Extinction Ratio**		20		
Polarization Mode Dispersion		0.1	0.2	ps
Return Loss		50		dB
Optical Power Handling***			50	W
Back Reflect Power			15	W
Fiber Type	See Order Information			
Operating temperature		0 to 60		$^{\circ}\text{C}$
Storage Humidity	5% to 95% (No Condensation)			
Package Dimension (Body)		120x45x45		mm

Note:

* Measured without connectors

** for PM version only.

*** Continuous operation, for pulse operation call

Features

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

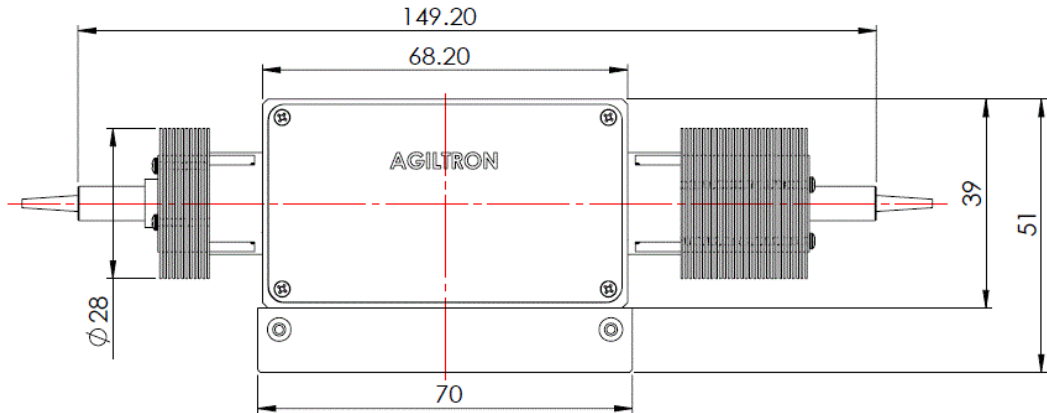
Applications

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

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Mechanical Footprint Dimensions (mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

FSOI-	Type	Wavelength	Power handling	Package	Fiber Type	Fiber Length	Connector	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Regular=11 PM=12 Special=00	2000=1 Special=0	50W=8	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