

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.

Features

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

Performance Specifications

FSOI High power Isolator	Min	Typical	Max	Unit
Operation Wavelength	1940	2000	2050	nm
Insertion Loss	0.5	0.6	0.9	dB
Isolation	22	25		dB
Polarization Dependent Loss		0.1	0.2	dB
Polarization Mode Dispersion		0.1	0.2	ps
Return Loss	45	50		dB
Optical Power Handling**			50	W
Beam Size	0.4	1		mm
Fiber Type	See Order Information			
Loss Stability		0.2 (15W/CW)		dB
Storage temperature		-10 to 60		$^{\circ}\text{C}$
Storage Humidity		5% to 95% (No Condensation)		
Package Dimension (Body)		$\varnothing 42 \times 20 \times 16$		mm

Note:

* Measured without connectors

** Continuous operation, for pulse operation call

*** It is available for larger beam size of 1-5 mm but the package size may change.

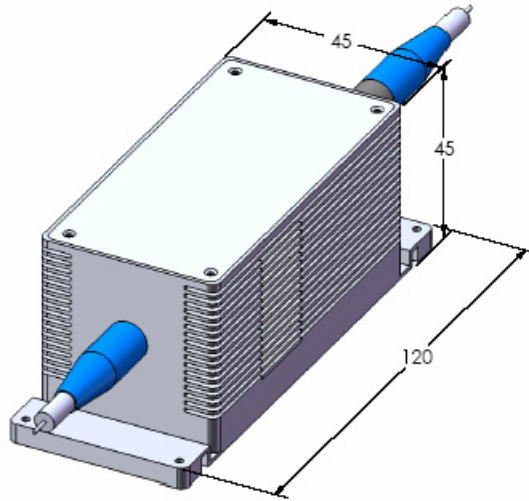
Applications

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

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Mechanical Footprint Dimensions (mm)



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	10W=1 20W=2 30W=3 50W=5	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