

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		1.2		dB
Isolation***		22		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
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

** Continuous operation, for pulse operation call

*** Back Reflect < 10%. For >10% application, please call us.

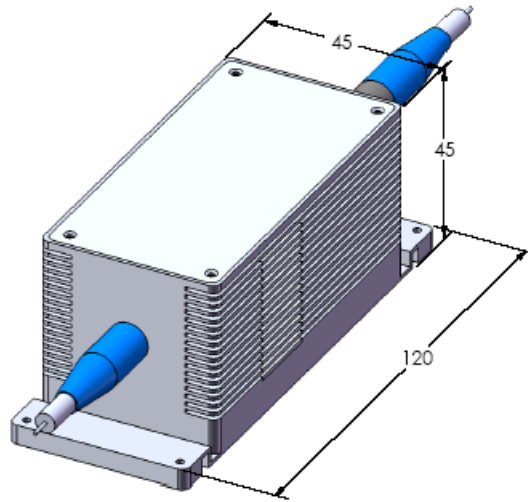
Applications

- 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	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