



Electro-Optics Technology, Inc.



海纳光学

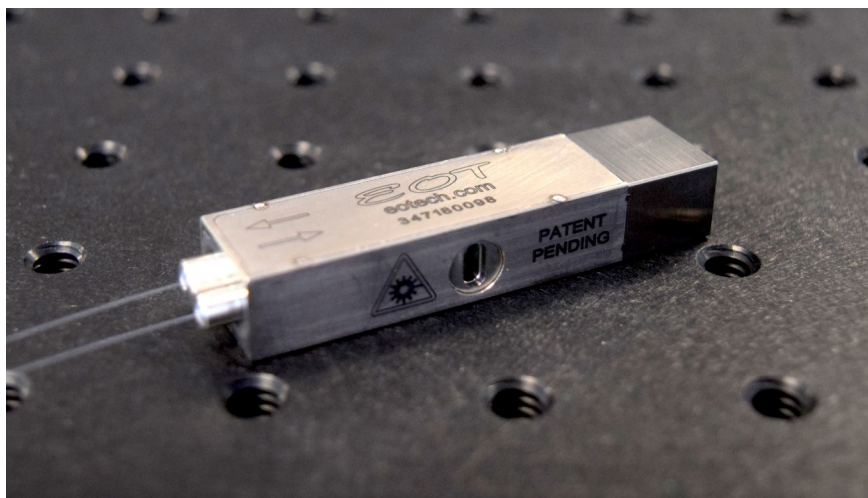
电话: 0755-84870203

网址: www.highlightoptics.com

Innovative High Quality Laser Solutions

30 W Fiber-to-Fiber

Polarization Maintaining Broadband Isolators



FEATURES

- Broadband Isolation
- Window for rejected beams
- Same Face Fiber Input/Output
- Small size, Lightweight (26 g)
- Low stray magnetic fields

OPTIONS

- Performance optimized for customer operating conditions
- Integrated bandpass filter for ASE suppression

EOT's 30 W Fiber-to-Fiber isolators are compact in size, light in weight, and employ EOT's proprietary Fiber Fuse End Cap Technology assuring high levels of reliability and resistance to damage. They also have a wide spectral range providing good isolation over the complete Yb^{+3} gain bandwidth. Because the input and output of these isolators are on the same end, they consume less space in a laser system. They can be easily placed in corners or other locations within a laser system where isolators having fiber on the input and output would not be practical. These isolators are ideally suited for separating amplifier stages in MOPA fiber lasers. They are designed for only CW fiber lasers. Additionally, these isolators are available with ASE filters.



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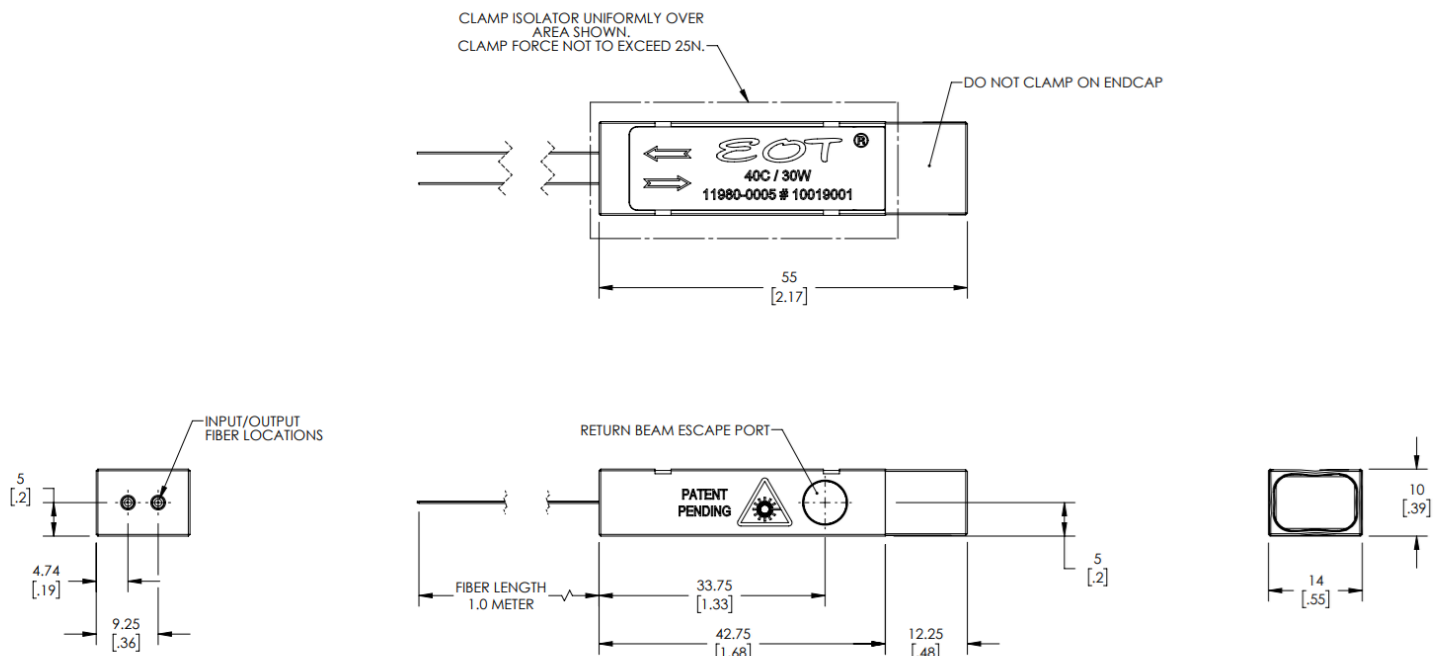
Innovative High Quality Laser Solutions

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SPECIFICATIONS

Polarization Maintaining							
	No ASE			With ASE			Comments
	Min.	Typical	Max.	Min.	Typical	Max.	
Center Design Wavelengths & Bandwidths of Broadband Operation	1030 nm	1064 nm	1080 nm	1030 nm; ASE Filter Bandpass: 1063 nm	1064 nm	1080 nm; ASE Filter Bandpass: 1065 nm	Other center wavelengths available upon request
Operating Temperature Range ^a	15 °C	25 °C	35 °C	15 °C	25 °C	35 °C	
Insertion Loss within Operating Wavelength	-1.0 dB	-0.6 dB		-1.1 dB			At operating heat sink temp. and power
Insertion Loss within Operating Wavelength over Operating Range	-1.2 dB			-1.3 dB			Over operating temp. range and forward power range
Broadband Isolation within Operating Wavelength at		-35 dB	-27 dB		-35 dB	-27 dB	At operating heat sink temp. and forward power
Broadband Isolation within Operating Wavelength over Operating Range			-24 dB			-24 dB	Over operating temp. range and forward power range
Return Loss (forward or reverse)		-50 dB	-48 dB		-50 dB	-48 dB	
Fiber Type	Double-clad Fiber						Or as specified by customer
Forward Power	0 W	25 W	30 W	0 W	25 W	30 W	
Reverse Power	0 W		4 W	0 W		4 W	

^a Custom operating temperature and operating forward power contingent upon EOT approval.



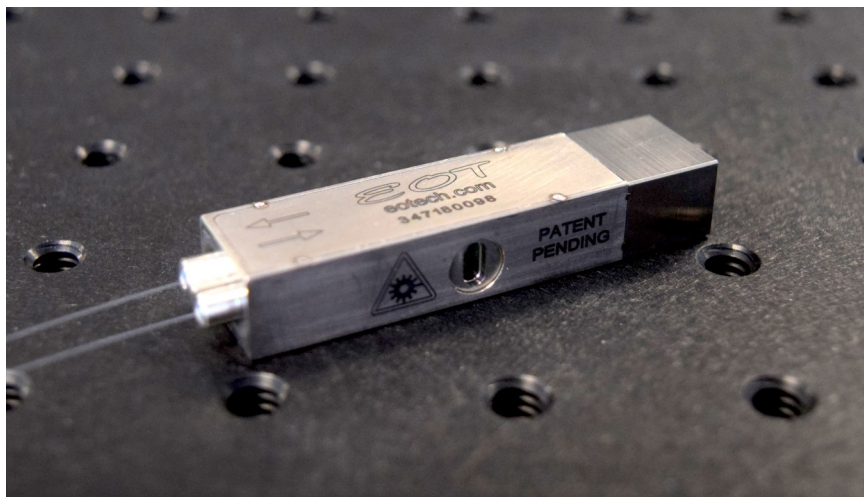
For questions or quotations please email or call our sales representatives at SALES@EOTECH.COM or +1.231.935.4044.



Electro-Optics Technology, Inc.

Innovative High Quality
Laser Solutions

40 W Fiber-to-Fiber Polarization Insensitive Broadband Isolators



FEATURES

- Broadband Isolation
- Window for rejected beams
- Same Face Fiber Input/ Output
- Small size, Lightweight (28 g)
- Low stray magnetic fields

OPTIONS

- Pulsed or Continuous Operation
- Performance optimized for customer operating conditions
- Integrated bandpass filter for ASE suppression

EOT's 40 W Fiber-to-Fiber isolators are compact in size, light in weight, and employ EOT's proprietary Fiber Fuse End Cap Technology assuring high levels of reliability and resistance to damage. They also have a wide spectral range providing good isolation over the complete Yb^{+3} gain bandwidth. Because the input and output of these isolators are on the same end, they consume less space in a laser system. They can be easily placed in corners or other locations within a laser system where isolators having fiber on the input and output would not be practical. These isolators are ideally suited for separating amplifier stages in MOPA fiber lasers. They are designed for both CW and pulsed fiber lasers. Additionally, these isolators are available with ASE filters.



Electro-Optics Technology, Inc.

Innovative High Quality Laser Solutions

SPECIFICATIONS

Polarization Insensitive							
	No ASE			With ASE			Comments
	Min.	Typical	Max.	Min.	Typical	Max.	
Center Design Wavelengths & Bandwidths of Broadband Operation	1030 nm	1064 nm	1080 nm	1030 nm; ASE Filter Bandpass: 1063 nm	1064 nm	1080 nm; ASE Filter Bandpass: 1065 nm	Other center wavelengths available upon request
Operating Temperature Range	15 °C	25 °C	35 °C	15 °C	25 °C	35 °C	
Insertion Loss within Operating Wavelength	-1.0 dB			-1.1 dB			At operating heat sink temp. and power
Insertion Loss within Operating Wavelength over Operating Range	-1.2 dB			-1.3 dB			Over operating temp. range and forward power range
Broadband Isolation within Operating Wavelength at Operating Conditions		-35 dB	-27 dB		-35 dB	-27 dB	At operating heat sink temp. and forward power
Broadband Isolation within Operating Wavelength over Operating Range			-24 dB			-24 dB	Over operating temp. range and forward power range
Return Loss (forward or reverse)		-50 dB	-48 dB		-50 dB	-48 dB	
Fiber In	10/125 or 10/130						Or as specified by customer
Fiber Out							
Forward Power	0 W	25 W	40 W	0 W	25 W	40 W	
Reverse Power	0 W		8 W	0 W		8 W	
Pulse Energy			0.8 mJ			0.8 mJ	Or fiber limited
Peak Power			10 kW			10 kW	For pulsewidths ≥ 1 nsec.

