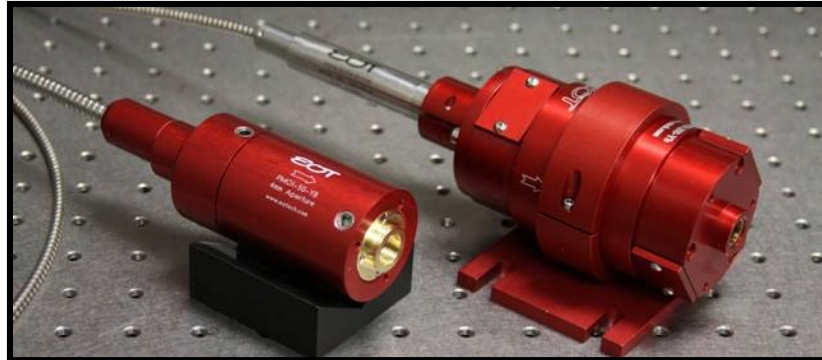




Electro-Optics Technology, Inc.

50W - 200W PM Fiber In / Free Space Out Isolators



Features:	Benefits:
<ul style="list-style-type: none"> EOT's patented high power fiber collimator technology. Patent U.S. 7,306,376 B2 	<ul style="list-style-type: none"> Enables high power performance from PM fiber lasers.
<ul style="list-style-type: none"> Short optical pathlength and reduced power density. 	<ul style="list-style-type: none"> Minimizes thermal lensing for powers up to 200W.
<ul style="list-style-type: none"> Availability of quarter-wave plate option. 	<ul style="list-style-type: none"> Circular polarization enhances hole drilling applications.

Part No. (Model) ^a	110-10229-0001 (PMOI-50-Yb)	110-10214-0001 (PMOI-200-Yb)
Operating Center Wavelength	1065nm nominal, 1030-1090nm available on request	1065nm nominal, 1030-1090nm available on request
Operating Wavelength Range	± 10 nm about center wavelength	± 10 nm about center wavelength
Clear Aperture	4mm	12mm
Isolation @23°C	>25dB in operating λ range	>25dB in operating λ range
Insertion Loss	<0.5dB	<0.5dB
Pulse Dmg Threshold @10ns	Fiber limited or 1mJ/pulse	Fiber limited or 5mJ/pulse
Beam Diameter	0.35mm – 1.0mm	6 \pm 0.3mm
Return Loss	\leq -50dB	\leq -55dB
Operating Temp. @ ctr. λ	>20dB isolation from 10 to 50°C	>20dB isolation from 10 to 50°C
Storage Temperature	-10 to 70°C	-10 to 60°C
Wavefront Distortion	$\leq \lambda/4$ @1064nm	$\leq \lambda/4$ @1064nm
Optical Fiber	Fujikura SM.98-P-6/125-U or other customer supplied fiber	Fujikura SM.98-P-6/125-U or other customer supplied fiber
Power Handling Forward	\leq 50W	\leq 200W
Combined Fwd and Rev P _{avg} Handling	\leq 50W	\leq 225W
Fiber Protection ^b	Stainless steel armor cable	Stainless steel armor cable
Focal Shift Due to Thermal Lensing	To be measured	\leq 2 Rayleigh ranges of focused beam
Humidity	0 to 90% non-condensing	0 to 90% non-condensing

Notes:

- Product specifications and pricing subject to change without notice.
- Physically dangerous levels of radiation can be associated with fiber breaks when used at high power levels. If isolator is purchased without armor cable, the customer accepts all liability and responsibility for any damages and/or personal injury due to fiber breaks or other non-conformance of the product.

5835 Shugart Lane
 Traverse City, MI 49684
 (231) 935-4044 (800) 697-6782 FAX: (231) 935-4046
sales@eotech.com www.eotech.com

Document 002-00032-0001 (02-15-10)