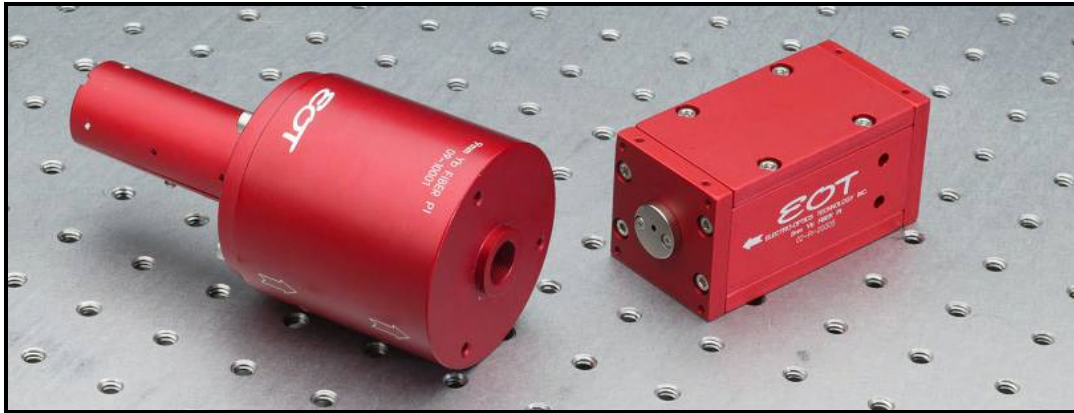


Yb:Fiber Free Space PI Isolators



Features:	
<ul style="list-style-type: none"> • Protect pulsed Yb:Fiber lasers from back reflections during marking applications. • Protect CW Yb:Fiber lasers from back reflections during etching, cutting, or welding applications. • Models for power levels up to 300W, note example of spectral response (100W model shown). • Models for $1/e^2$ beam diameters from 350μm to 5mm. • Mounting option for fiber collimator attachment. 	

Part No. (Model) ^a	110-10175-0001 (PI-0.7-Yb)	110-10235-0001 (PI-2.0-Yb)	110-10178-0001 (PI-6.2-Yb)	110-10125-0001 (PI-9.0-Yb-100)	110-10125-0003 (PI-9.0-Yb-300)
Clear Aperture	0.7mm	2.0mm	6.2mm	9.0mm	9.0mm
Max $1/e^2$ beam dia.	0.35mm	1.0mm	3.1mm	5.0mm	5.0mm
Isolator Type	Displacer	Displacer	Wedge ^b	Wedge ^b	Wedge ^b
Temp.-operating	5-50°C	5-50°C	5-50°C	5-50°C	5-50°C
Temp.-storage	-20 to 60°C	-20 to 60°C	-20 to 60°C	-20 to 60°C	-20 to 60°C
Isolation@23°C, 1070nm	>30dB	>30dB	>30dB	>27dB ^a	>25dB ^a
Min. Isolation across T- oper., 1070nm	>20dB	>20dB	>20dB ^a	>18dB ^a	>18dB ^a
Transmission	>94%	>94%	>94%	>94%	>94%
Return Loss	<-50dB	<-50dB	<-50dB	<-50dB	<-50dB
Operating Humidity	95%	95%	95%	95%	95%
Max. Power Handling	25W	40W	75W	100W	300W
Range of Focal Length of Thermal Lens at P- max and $1/e^2$ beam dia.	0.2-0.4m	1.1-1.9m	5.7-9.6m	11.2-18.7m	5.5-6.2m
Range of Absorbed Power	.075-0.13W	.12-0.2W	.225-0.38W	0.3-0.5W	0.9-1.0W
Min. distance from Laser Head	N/A	N/A	355mm ^b	516mm ^b	516mm ^b

Notes:

- Product specifications and pricing subject to change without notice.
- The isolated power in the wedge based isolator is directed out of the input aperture at an angle to the input beam; please refer to the Users Guides for more details. For applications at high average power and operating temperatures refer to the Users Guides and bulletins for more detailed information.