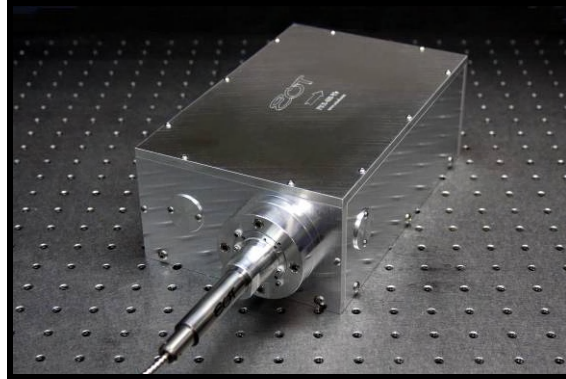


## 400W PI Fiber In / Free Space Out Isolator



Features:	Benefits:
<ul style="list-style-type: none"> <li>EOT's patented high power fiber collimator technology.</li> <li>Patent U.S. 7,306,376 B2</li> </ul>	<ul style="list-style-type: none"> <li>Enables high power performance from PI fiber lasers and use of any SMF or MMF fiber with a cladding diameter <math>\leq 400\mu\text{m}</math>.</li> </ul>
<ul style="list-style-type: none"> <li>Short optical pathlength and 6mm diameter beam</li> </ul>	<ul style="list-style-type: none"> <li>Minimal thermal lensing at power levels up to <math>\leq 400\text{W}</math>.</li> </ul>
<ul style="list-style-type: none"> <li>Optional water-cooled beam dumps</li> </ul>	<ul style="list-style-type: none"> <li>No stray beams to worry about.</li> </ul>

Description	Specification <sup>a</sup>
Part No. (Model)	110-10215-0001 (PIOI-400-Yb)
Operating Center Wavelength	1065nm nominal, 1030-1090nm available on request
Operating Wavelength Range	$\pm 10\text{nm}$ about center wavelength
Clear Aperture	12mm
Isolation @23°C	>25dB in operating wavelength range
Insertion Loss	<0.5dB
Pulse Damage Threshold @10ns	5mJ/pulse
Beam Diameter	6mm
Return Loss	-55dB
Operating Temperature for >20dB isolation	10 to 50°C
Storage Temperature	-10 to 70°C
Wavefront Distortion	$\leq \lambda/4$ in transmission
Optical Fiber	20/250 NA 0.08 $\pm 0.05$ silica fiber or other customer supplied fiber
Incident $P_{\text{avg}}$ (Random Polarization)	$\leq 400\text{W}$
Combined Forward and Reverse total $P_{\text{avg}}$	$\leq 450\text{W}$
Focal Shift Due to Thermal Lensing	$\leq 2$ Rayleigh ranges of focused beam
Fiber Protection <sup>b</sup>	Stainless steel armor cable

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.