



Electro-Optics Technology, Inc.

Polarization Insensitive Fiber Input/Free Space Output Isolators for Pulsed <30W Yb:Fiber Lasers

Applications	Features
• Laser Marking	• Rugged, Environmentally hardened assembly
• Laser Engraving	• Maintains excellent beam quality of fiber lasers
• Micro Machining & Trimming	• Variety of fiber types and output beam diameters



Description	OI-30-Yb-6	OI-30-Yb-25	Other
Fiber Type	Corning HI-1060	4/25	Customer Spec.
Power Handling (W)	30W Max.	30W Max.	30 Max
Center Wavelength \pm 15nm	1064nm	1064nm	1064nm
Peak Power	20kW	20kW	20kW
M ²	<1.2	\leq 2.0	Contact EOT
Beam Dia. Out of Isolator	0.6 to 1.0mm	0.6 to 1.0mm	1.3mm Max.
Ellipticity	>90%	>85%	Contact EOT
Full Angle Divergence (mrad)	<30mrad	<35mrad	Contact EOT
Pointing Accuracy (mrad)	<2	<2	<2
Insertion Loss (dB)	0.5 typical, 0.7 max	0.5 typical, 0.7 max	Contact EOT
Isolation (from 10-50°C)	>23dB	>23dB	>23dB
Isolation (23°C)	>27dB	>27dB	>27dB
Return Loss (dB)	<-47dB	<-50dB	Contact EOT
Fiber Length	3m	3m	Contact EOT
Reverse Power Handling	100% transmitted power @ 5 min.	100% transmitted power @ 5 min.	100% transmitted power @ 5 min.
Operating Temperature	10 to 60°C	10 to 60°C	-10 to 60°C
Storage Humidity	90% non-condensing	90% non-condensing	90% non-condensing
Beam Expanding Telescope	Various Magnifications Available	Various Magnifications Available	Various Magnifications Available

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Fiber Protecting Sleeve	Furcation Tubing or Armor Cable	Furcation Tubing or Armor Cable	Furcation Tubing or Armor Cable
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