

OAD1550-XY-T40S-7



Dual Axis AO Deflector (Preliminary)

Off-Axis

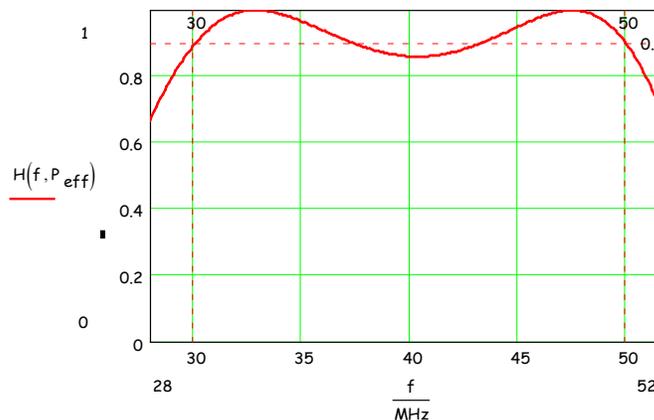
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The OAD1550-XY offers high throughput efficiency over a wide scan angle at 1550nm. This dual axis deflector consists of two AO deflector crystals mounted orthogonally in one assembly, each with independent angle adjustment. There is no requirement for input or intervening optics between the crystals.

SPECIFICATIONS

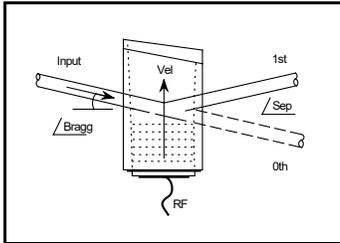
Operating Wavelength:	1.55um
Interaction Material:	TeO ₂ (off-axis)
Acoustic Wave:	Shear
Acoustic Velocity:	689m/s
Center Frequency (f _c):	40MHz (+/- 10% for best scan)
RF Bandwidth:	20MHz
Scan Angle/Axis:	2.3°
Input Polarization (Required):	Linear, horizontal w.r.t. base
Output polarization:	Linear, horizontal w.r.t. base
Active Aperture:	7mm x 7mm
f _c Separation Angle/Axis:	5.2°
Max RF Power:	2.7W/axis (nominal)
Input impedance:	50 ohm
Access Time:	10usec
Resolution:	>200 x 200
Efficiency across scan	80% (typ'), > 60% per axis
Throughput efficiency	> 30% total

Relative Diffraction Response vs Frequency (per axis)



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.
 Tel: (703) 321 8301 Fax: (703) 321 8546
 E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.
 In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding



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OUTLINE DRAWING

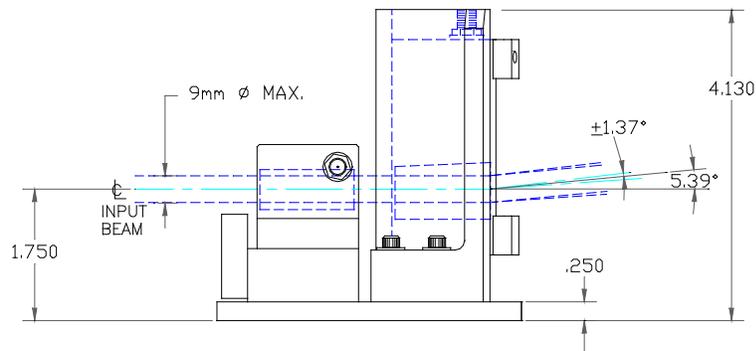
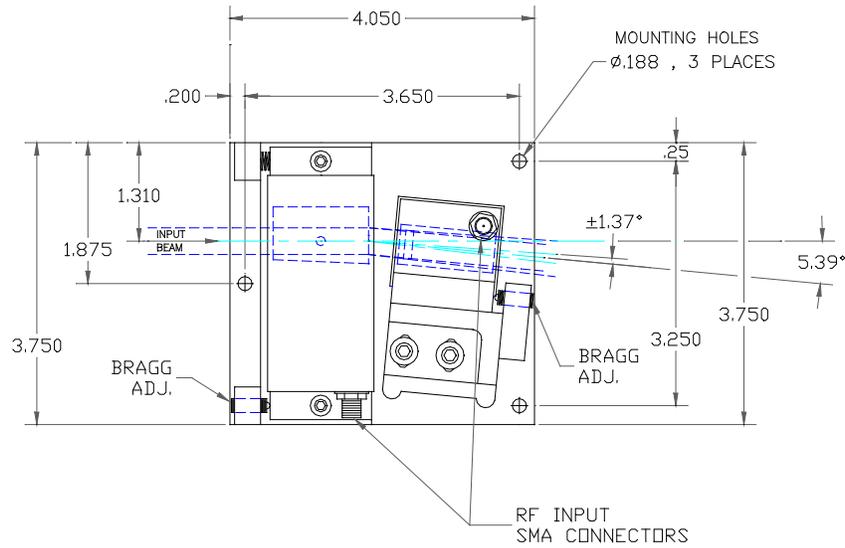


Diagram for reference only. Beam ANGLES not correct

Recommended Drive Electronics

IMS4-L (or -P) synthesizer plus 2x AF0-40T-4 amplifier

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