





## Dual Axis AO Deflector- Preliminary

The OAD1550-XY offers high throughput efficiency over a wide scan angle in the NIR range. This deflector has been designed for simplicity and consists of two AO deflector crystals mounted orthogonally in one case. There is no requirement for input or intervening optics between the crystals.

## **SPECIFICATIONS**

Operating Wavelength: Interaction Material: Acoustic Wave: Acoustic Velocity: Center Frequency  $(f_c)$ : RF Bandwidth: Scan Angle/Axis: Input Polarization (Required): Output polarization: Active Aperture: f<sub>c</sub> Separation Angle/Axis: Max RF Power: Input impedance: Access Time: Resolution: Efficiency across scan Throughput efficiency

1.55um TeO<sub>2</sub> (off-axis) Shear 689m/s 40MHz (+/- 10% for best scan) 20MHz 2.3° Linear, horizontal w.r.t. base Linear, horizontal w.r.t. base 7mm x 7mm 5.2° 2.7W/axis (nominal) 50 ohm 10usec >200 x 200 80% (typ'), > 60% per axis > 30% total

## Relative Diffraction Response vs Frequency (per axis)



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

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

