

D1422XY-T85L-4





0821

Dual axis AO Deflector designed for High Power Fibre and DPSS, NIR lasers. Each deflector incorporates two section acoustic beam steering to improve scan uniformity. Mount includes fine thread Bragg adjusters for both X and Y axes. Applications include high speed, sequential multi-point scanning or fast sweep operation.

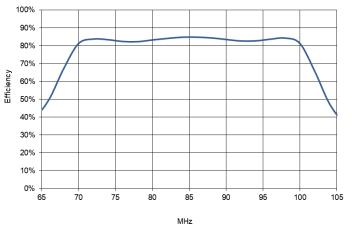
SPECIFICATIONS

Spectral Range: 0.36 > 1.5µm Standard A/R Wavelengths: 1.064µm 200 Watts ** Optical Power: Interaction Medium: Tellurium Dioxide (TeO₂) Acoustic Velocity: 4.2mm/us Centre Frequency (Fc): 85MHz +/- 5MHz for optimum scan efficiency. RF Bandwidth: 30MHz Input Impedance: 50Ω Nominal VSWR: <1.5:1 @ Fc Clear Aperture: 6.5mm Active Aperture Height: 4mm Static Insertion Loss <3% at 1.064um < 0.5%/Surface Reflectivity: Laser Polarization: Any RF Power (total): <7 Watts per axis Bragg Angle 10.8 mrad Separation angle at 85MHz/1.064um 21.5 mrad Typical Scan Angle: 7.6 mrad

Deflector Performance using 3 x 3 mm beamDual axis XY efficiency:Access Time:QResolution:2

~65% across 30MHz scan 0.7µsec 20 x 20 <u>resolvable</u> spots, >1000 x 1000 non-resolvable points





* Single mode input

** For higher powers please contact Isomet

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

