

## D1384-aQ170-7 (MUV)



### **High Power Acousto-Optic Deflector**

0923

The D1384-aQ170 is high speed, high efficiency AO deflector developed specifically for industrial mid-UV laser applications. Also available in a dual axis X-Y configuration.

- Material Processing
  Drilling
- Surface texturing
- Micro machining

#### **SPECIFICATIONS**

Operating Wavelength: Centre Frequency (fc): RF Bandwidth: Diffraction Efficiency (DE): DE across 70MHz scan:

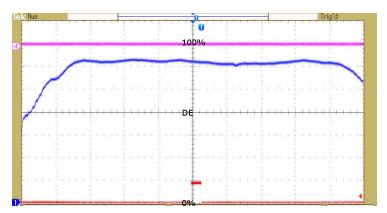
Input Impedance: Input VSWR: Active Aperture: Optical Insertion Loss: Reflectivity: DC Contrast Ratio: Laser Polarization: Water Cooling (Min): 248nm or 266nm, as specified. 170MHz (+/- 5% for best scan response) 70MHz min, 80MHz typical >80% at fc >70%, 80% typical per axis

50Ω(Nominal) <1.5:1 @ 170MHz 7mm max, optimal for 5mm beam <3% (<2% typical) <0.5%/Surface >1000:1 min (2000:1 typical) Vertical, Perpendicular to scan 2L/minute @ 25deg C

#### PERFORMANCE vs. WAVELENGTH

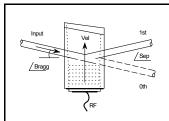
Wavelength: 248nm 266nm Total RF Drive Power: ~10.0W ~12.0W 3.7mrad 4.0mrad Bragg Angle: Separation Angle (at fc): 7.4mrad 7.9mrad Scan Angle (65MHz sweep): 2.8mrad 3.0mrad Resolution, 5mm beam: Up to 60 resolvable spots >1000 non-resolvable points

#### Typical 80MHz Sweep Response



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



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