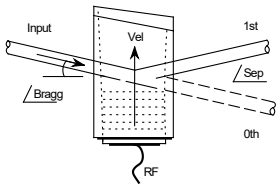



# D55-T80S-2

## Acousto-Optic Deflector

***Visible***

***2121***

### SPECIFICATIONS

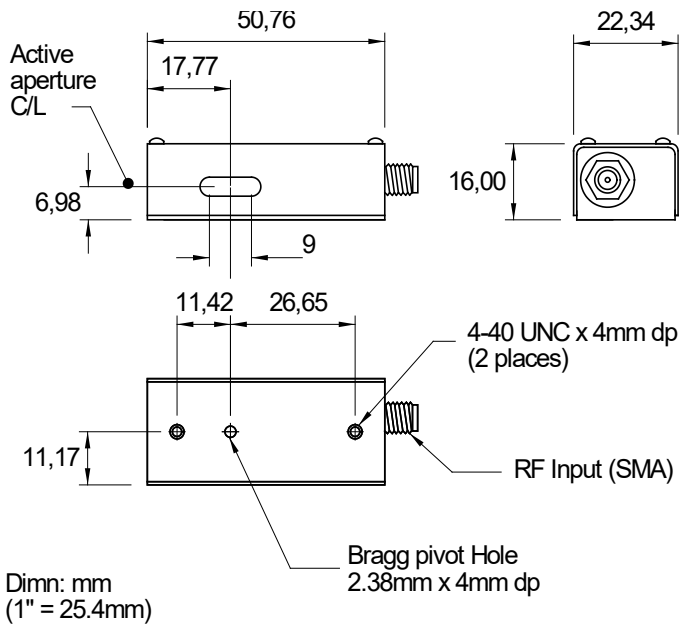
| | |
|---|---|
| Operating Wavelength: | 488nm to 633nm |
| Interaction Material: | $TeO_2$ (Slow Shear Mode) |
| Active Aperture: | 2mm H x 7mm L |
| Centre Frequency ($f_c$) | 80MHz* |
| RF Bandwidth ($\Delta f$) | 40MHz* |
| Input Impedance: | 50Ω (Nominal) |
| VSWR: | < 1.5 : 1 @ 80 MHz |
| Access Time ($\tau$): | 11.3μs |
| $\tau\Delta f$ Resolution: | 450 Spots |
| Laser Polarization: | RH Circular (Preferred) / Linear |

* Wavelength dependent

### PERFORMANCE vs. WAVELENGTH

| | |
|---|---|
| Wavelength (nm): | 633 |
| RF Drive Power (Watts): | <1.0 |
| Bragg Angle (mrad @ fc): | 41.1 |
| Beam Separation (mrad @ fc): | 82.0 |
| Scan Angle (degrees): | 2.35º |
| Diffraction Efficiency (% @ fc): | ≥80.0 |

### OUTLINE DRAWING

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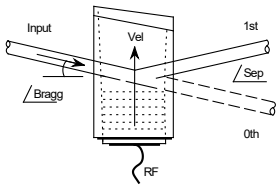
ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
***E-mail: ISOMET@ ISOMET.COM*** ***Web Page: WWW.ISOMET.COM***

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




# D55-T80S-2

## Acousto-Optic Deflector

***Visible***

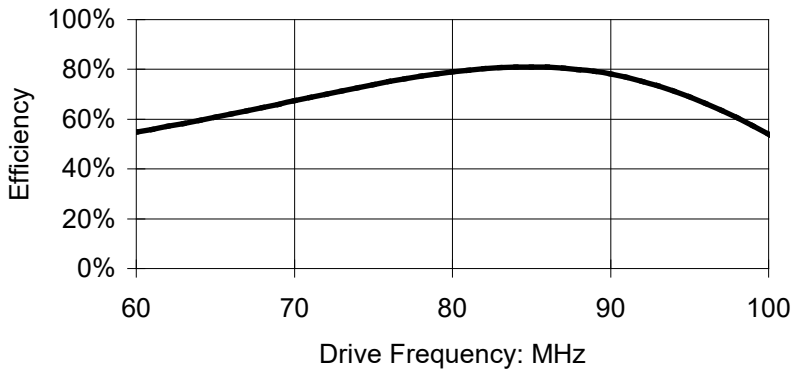
***2121***

**Recommended Driver**

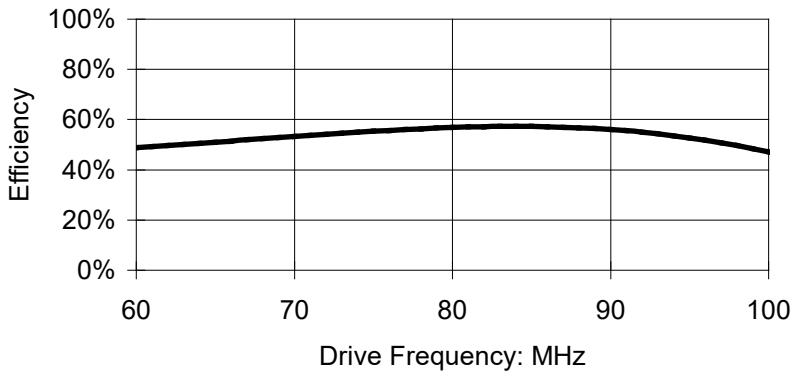
iMS4-L Synthesizer with AG0-80T-1-1 Amplifier
*or*
620C / 630C-80 Variable Frequency Driver

Typical Diffraction Efficiency vs. Frequency Response at 633nm

**R.H. Circular Polarization**
**(λ/4 waveplate not provided)**




**Linear Polarization**

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