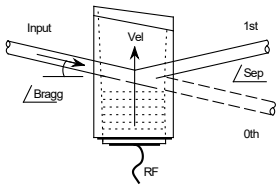


D55-T80S-2

Acousto-Optic Deflector

Visible

2125

SPECIFICATIONS

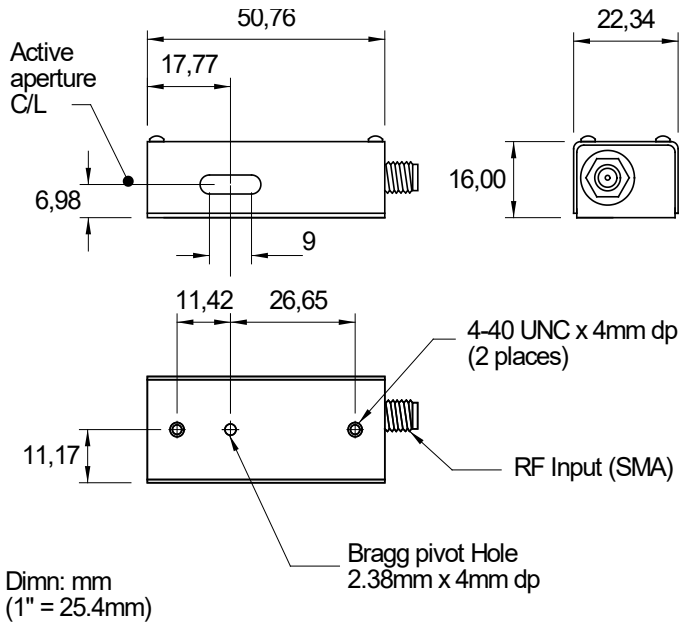
Operating Wavelength:	488nm to 633nm
Interaction Material:	TeO_2 (Slow Shear Mode)
Active Aperture:	2mm H x 7mm L
Centre Frequency (f_c)	80MHz*
RF Bandwidth (Δf)	40MHz*
Input Impedance:	50Ω (Nominal)
VSWR:	< 1.7 : 1 @ 80 MHz
Access Time (τ):	11.3μs
$\tau\Delta f$ Resolution:	450 Spots
Laser Polarization:	RH Circular (preferred) / Linear

* Wavelength dependent for best sweep uniformity

PERFORMANCE vs. WAVELENGTH

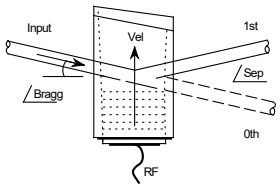
Wavelength:	633nm
RF Drive Power:	<0.8W
Bragg Angle @ fc:	41mrad, nominal
Beam Separation (@ fc):	82mrad
Scan Angle:	2.35º
Diffraction Efficiency (@ fc):	≥80% Circular polarization >55% Linear polarization

OUTLINE DRAWING



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



D55-T80S-2

Acousto-Optic Deflector

Visible

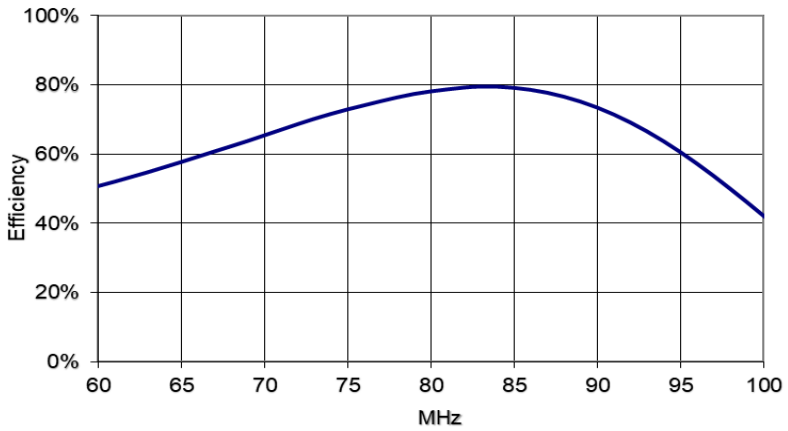
2125

Recommended Driver

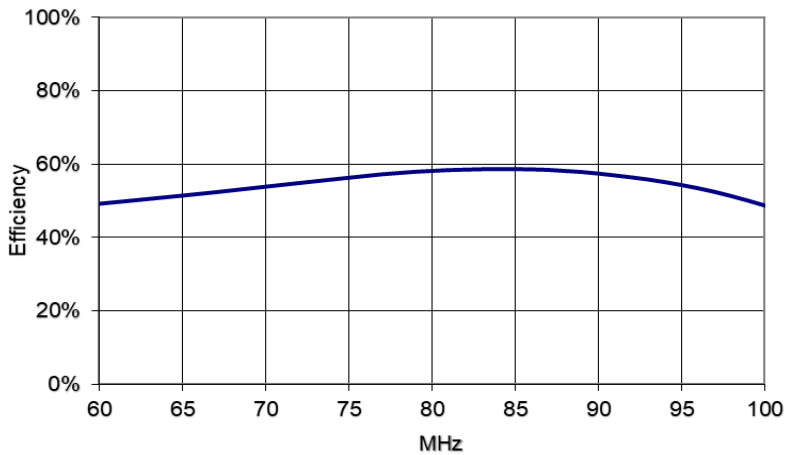
iCSA100T-1-1 Synthesizer-Amplifier
or
RF2 / RF3 or RF5-80T-2 Variable Frequency Driver

Typical Diffraction Efficiency vs. Frequency Response at 633nm

RH Circular Polarization
(λ/4 waveplate not provided)



Linear Polarization



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