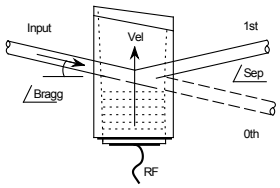


LS55-V

Acousto-Optic Deflector

ISOMET

1119

SPECIFICATIONS

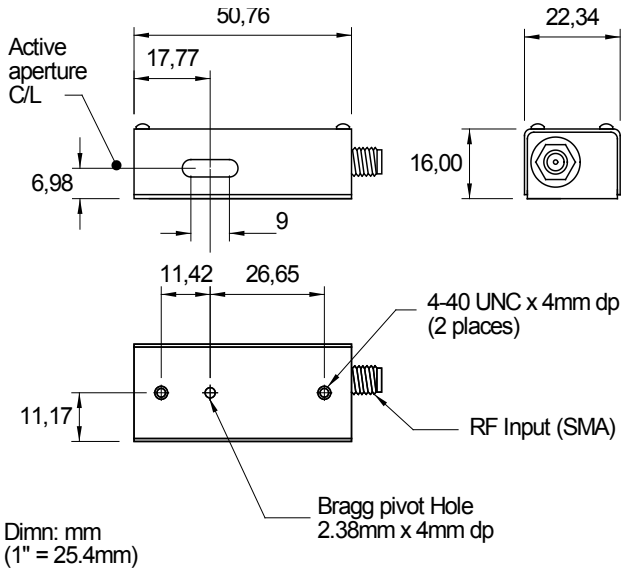
Operating Wavelength:	488nm to 633nm
Interaction Material:	TeO_2 (Slow Shear Mode)
Active Aperture:	2mm H x 7mm L
Centre Frequency (f_c)	80MHz*
RF Bandwidth (Δf)	40MHz*
Input Impedance:	50Ω (Nominal)
VSWR:	< 1.5 : 1 @ 80 MHz
Access Time (τ):	11.3μs
$\tau\Delta f$ Resolution:	450 Spots
Laser Polarization: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

* Wavelength dependent

PERFORMANCE vs. WAVELENGTH

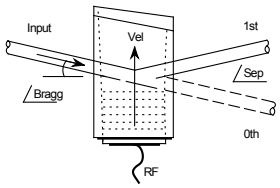
Wavelength (nm):	633
RF Drive Power (Watts):	<1.0
Bragg Angle (mrad @ fc):	41.1
Beam Separation (mrad @ fc):	82.0
Scan Angle (degrees):	2.35º
Diffraction Efficiency (% @ fc):	≥80.0

OUTLINE DRAWING



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



LS55-V

Acousto-Optic Deflector

1119

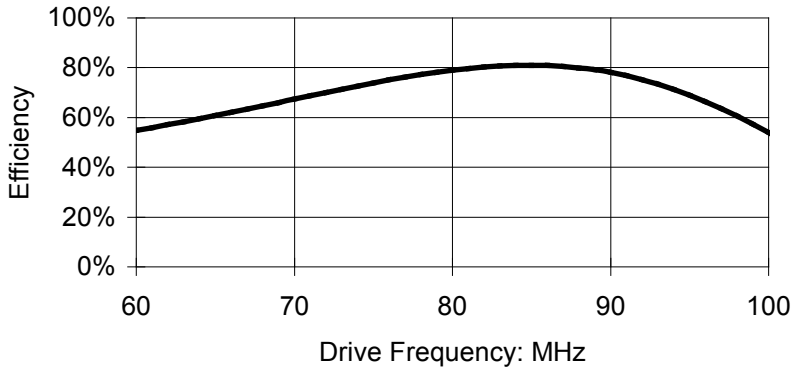
Recommended Driver

620C-80 (VARIABLE FREQUENCY & DIGITAL MOD'N)
630C-80 (VARIABLE FREQUENCY & ANALOG MOD'N))

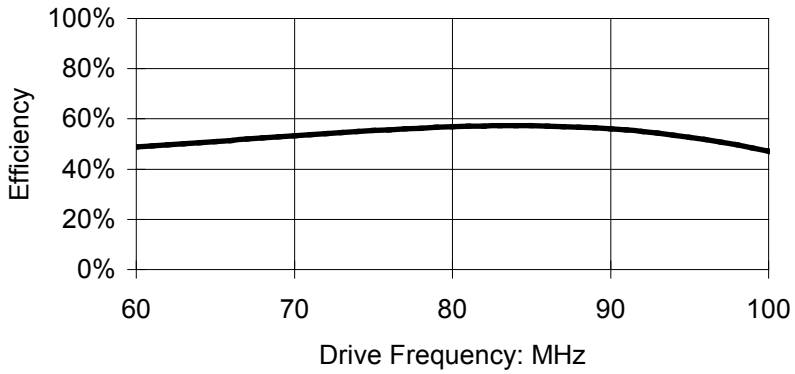
Typical First Order Diffraction Efficiency vs. Frequency Response

633nm

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



Linear Polarization



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