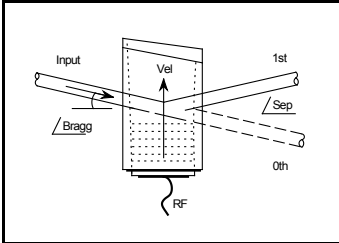


LS55-NIR

Acousto-Optic Deflector



SPECIFICATIONS

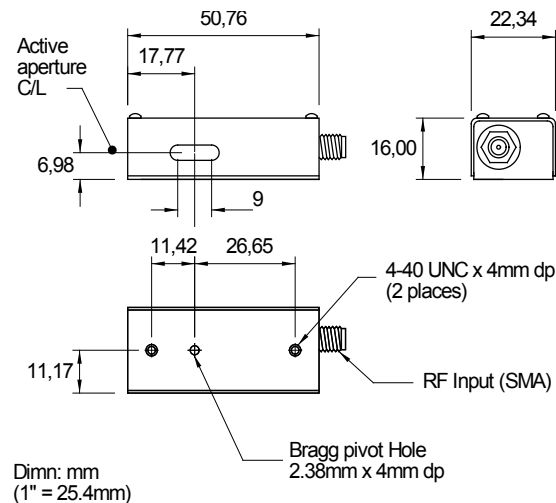
Operating Wavelength:	750nm to 850nm
Interaction Material:	TeO ₂ (Slow Shear Mode)
Active Aperture:	2mm H x 7mm L
Centre Frequency (f _c):	80MHz*
RF Bandwidth (Δf):	40MHz*
Input Impedance:	50Ω (Nominal)
VSWR:	< 1.5 : 1 @ 80 MHz
Access Time (τ):	11.3μs
τΔf Resolution:	450 Spots
Laser Polarization:	RH Circular (Preferred) / Linear

* Wavelength dependent

PERFORMANCE vs. WAVELENGTH

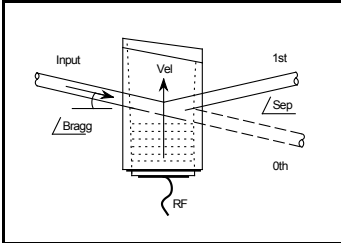
Wavelength (nm):	830
RF Drive Power (Watts):	<1.0
Bragg Angle (mrad @ f _c):	53.9
Beam Separation (mrad @ f _c):	107.5
Scan Angle (degrees):	3.08°
Diffraction Efficiency (% @ f _c):	≥80.0

OUTLINE DRAWING



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue 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-NIR

Acousto-Optic Deflector



1118

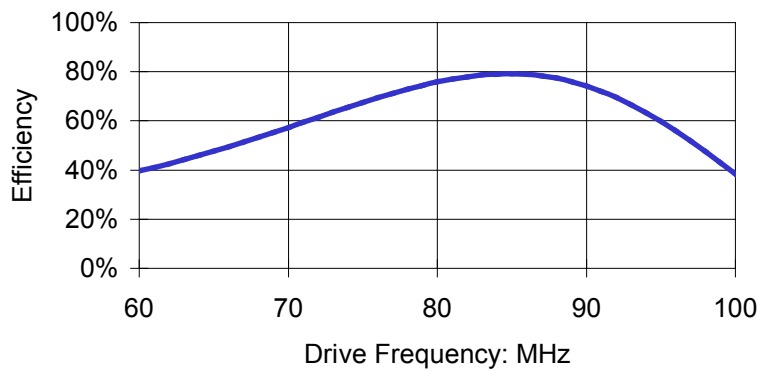
Recommended Driver

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

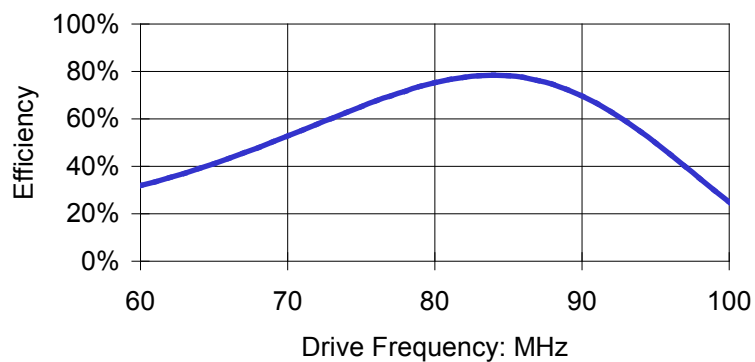
Typical First Order Diffraction Efficiency vs. Frequency Response

830nm

R.H. Circular Polarization
 ($\lambda/4$ waveplate not provided)



Linear Polarization



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