

D55-T80S-2

Acousto-Optic Deflector

NIR



2125

SPECIFICATIONS

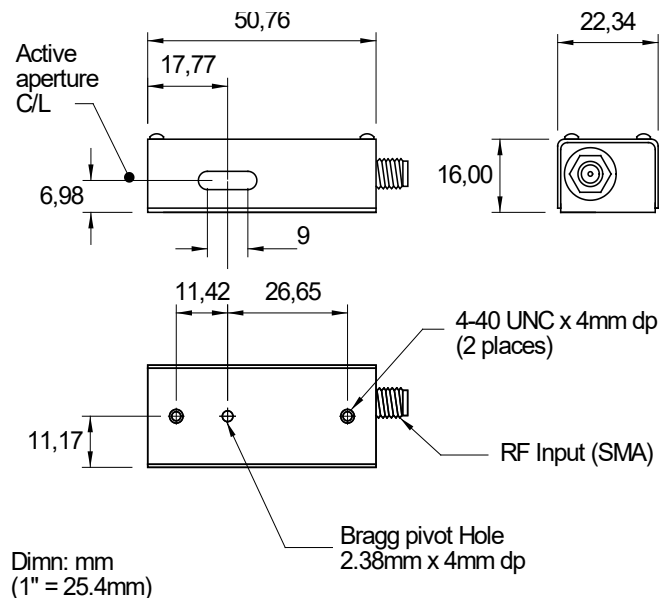
Operating Wavelength:	750nm to 850nm
Interaction Material:	TeO ₂ (Slow Shear Mode)
Active Aperture:	2mm H x 7mm L
Centre Frequency (f _c):	80MHz*
RF Bandwidth (Δf):	40MHz*
Input Impedance:	50Ω (Nominal)
VSWR:	< 1.7 : 1 @ 80 MHz
Access Time (τ):	11.3μs
τΔf Resolution:	450 Spots
Laser Polarization:	RH Circular (preferred) / Linear

* Wavelength dependent for best sweep bandwidth

PERFORMANCE vs. WAVELENGTH

Wavelength:	830nm
RF Drive Power:	<1.5W
Bragg Angle (@f _c):	54mrad, nominal
Beam Separation (f _c):	107mrad
Scan Angle:	3.1°
Diffraction Efficiency (@ f _c):	≥80% Circular polarization >70% 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

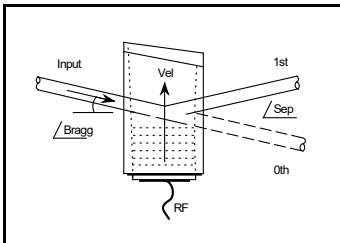
E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.

In-house: Crystal Growth,

Optical Polishing,

A/R coating, Vacuum Bonding



D55-T80S-2

Acousto-Optic Deflector

NIR



2125

Recommended Driver

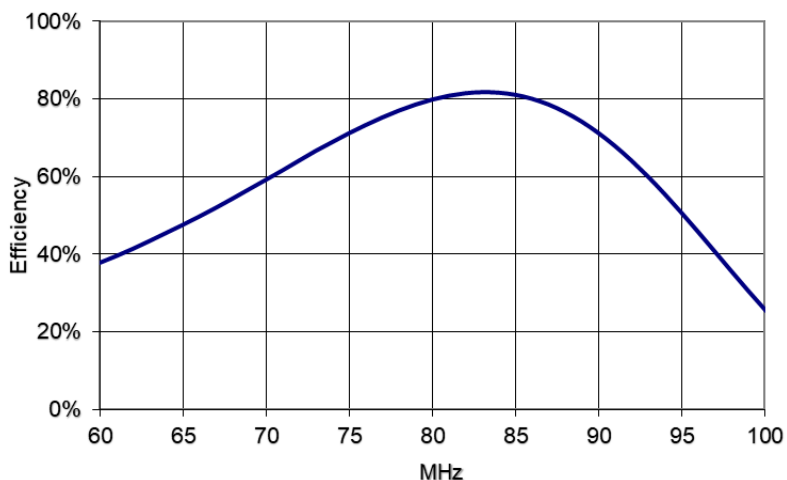
iCSA100T-1-1 Synthesizer-Amplifier

or

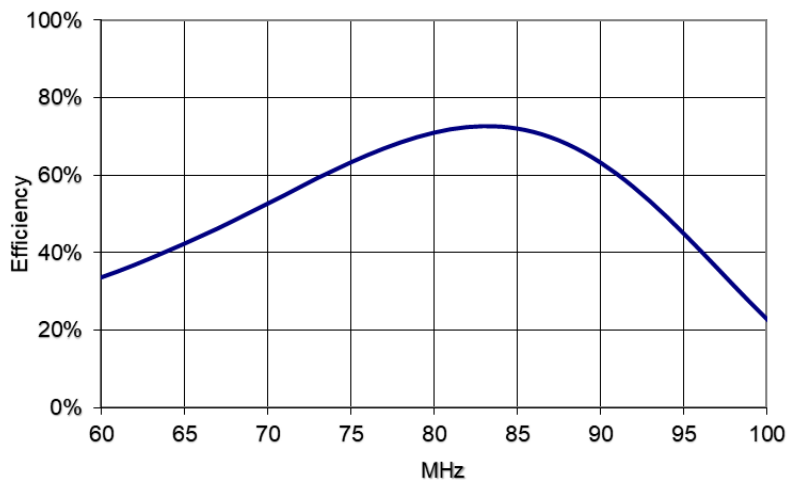
RF2 / RF3 or RF5-80T-2 Variable Frequency Driver

Typical Diffraction Efficiency vs. Frequency Response at 830nm

RH Circular Polarization ($\lambda/4$ waveplate not provided)



Linear Polarization



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**