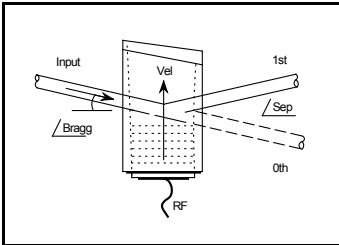


LS110A-VIS-(C)

Acousto-Optic Deflector

0419



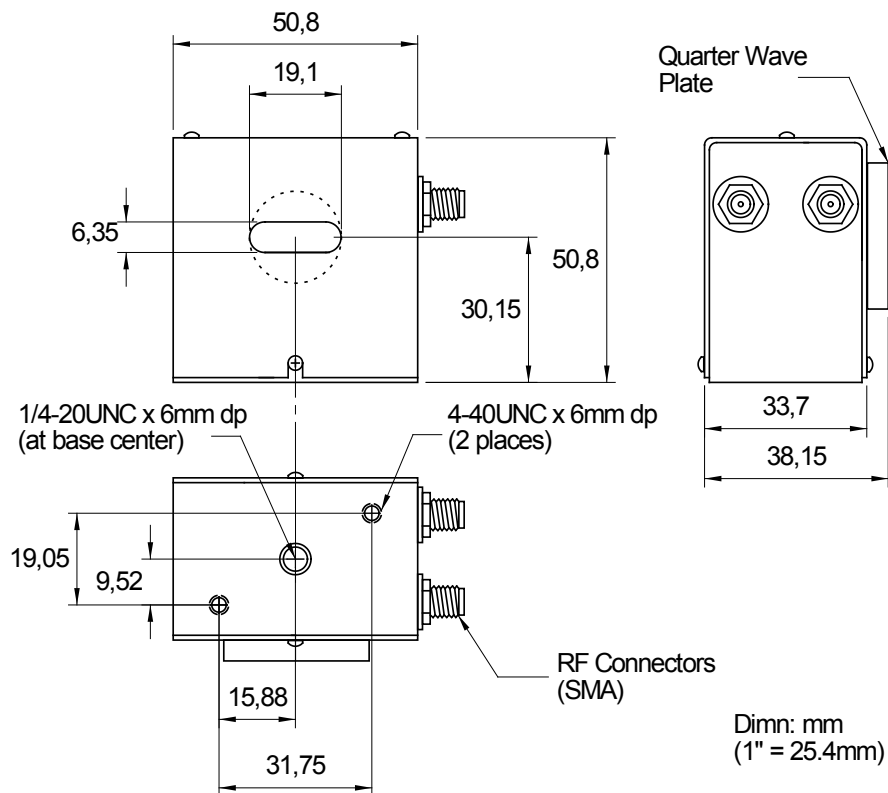
APPLICATIONS

- Solid State Scanning of Visible and Infrared Lasers

FEATURES

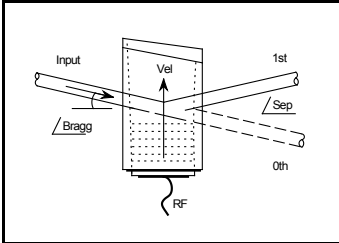
- High Resolution
- High Scan Speed
- No Moving Parts
- High Uniformity and Throughput across Scan

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



LS110A-VIS-(C)

Acousto-Optic Deflector



0419

SPECIFICATIONS

	<u>LS110-442</u>	<u>LS110-500</u>	<u>LS110A-532</u>	<u>LS110-633</u>
Wavelength **:	442nm	488(515)nm	532nm	633nm
Centre Freq. (Nom)	120MHz	100MHz	100MHz	100MHz
Bandwidth Δf :	50MHz	50MHz	50MHz	50MHz
Scan Angle/Axis:	2.1°	2.3° (2.4°)	2.5°	2.9°
Separation Angle :	4.9°	4.5° (4.8°)	4.9°	5.9°
Aperture	9.3mm / 14x4mm	9.3mm / 14x4mm	9.3mm / 14x4mm	9.3mm / 14x4mm
Resolution:				
9.3mm Beam (-C)	750	750	750	750
14x4mm Beam	1100*	1100*	1100*	1100*

Aperture:

LS110-xxx-C 9.3mm diameter
 LS110-xxx 14mm(W) x 4mm(H)

Access Time (t):

(-C) 9.3mm circular aperture 15 μs
 14mm(h)x4mm(w) aperture 22.7 μs

Input Laser Polarization: Linear. (Quarter wave plate included)

Output Laser Polarization: Circular (Nominal)

Interaction Material: TeO₂ (Slow Shear)

Acoustic Velocity: 0.617mm/ μs

RF Input Impedance: 50 Ω Nominal

Throughput Efficiency: >60% Across Scan (75% Typical)

RF DRIVE ELECTRONICS

Fast tuning Synthesizer: iMS4-L (or -P) synthesizer plus 803C-1 amplifiers (x2)

* Theoretical Rayleigh resolution with uniformly illuminated aperture (14mm).

** Please call for other operating wavelengths.

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