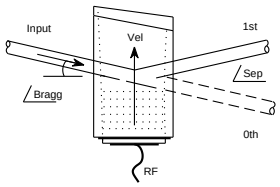


LS110A-VIS-(C)

Acousto-Optic Deflector

ISOMET

0913

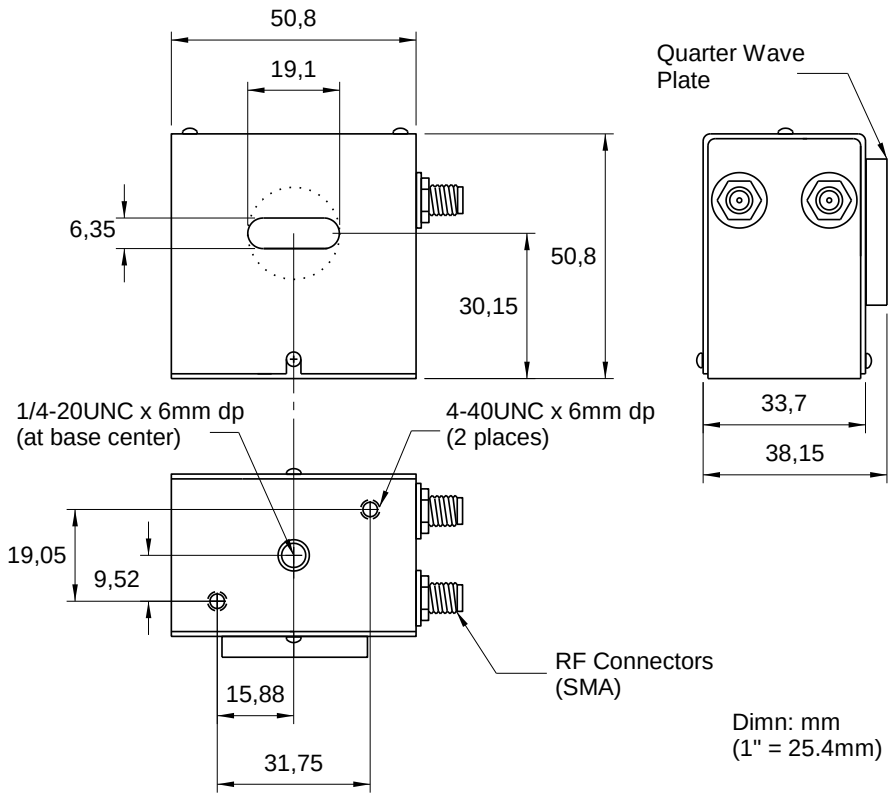
APPLICATIONS

- Solid State Scanning of Visible and Infrared Lasers

FEATURES

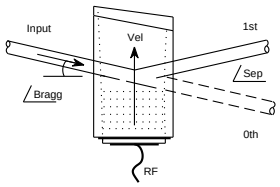
- High Resolution
- High Scan Speed
- No Moving Parts
- High Uniformity and Throughput across Scan

OUTLINE DRAWING



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, 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

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SPECIFICATIONS

	LS110-442	LS110-500	LS110A-532	LS110-633
Wavelength **:	442nm	488(515)nm	532nm	633nm
Centre Freq. (Nom)	120MHz	100MHz	100MHz	100MHz
Bandwidth Δf:	50MHz	50MHz	50MHz	50MHz
Scan Angle/Axis:	2.1º	2.3º (2.4º)	2.5º	2.9º
Separation Angle :	4.9º	4.5º (4.8º)	4.9º	5.9º
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): 15 μs (-C) or 22.7μs

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: 50Ω Nominal

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

RF DRIVE ELECTRONICS

VCO driver/amplifier: D323-BS / D333-BS
Fast tuning Synthesizer: iHSA-2
Amplifier only: DA134-p-xxx (with Integral Phase shifting)

* Theoretical Rayleigh resolution with uniformly illuminated aperture (14mm).
** Please call for other operating wavelengths.

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