

LS110A-NIR-(C)

Acousto-Optic Modulator



0913

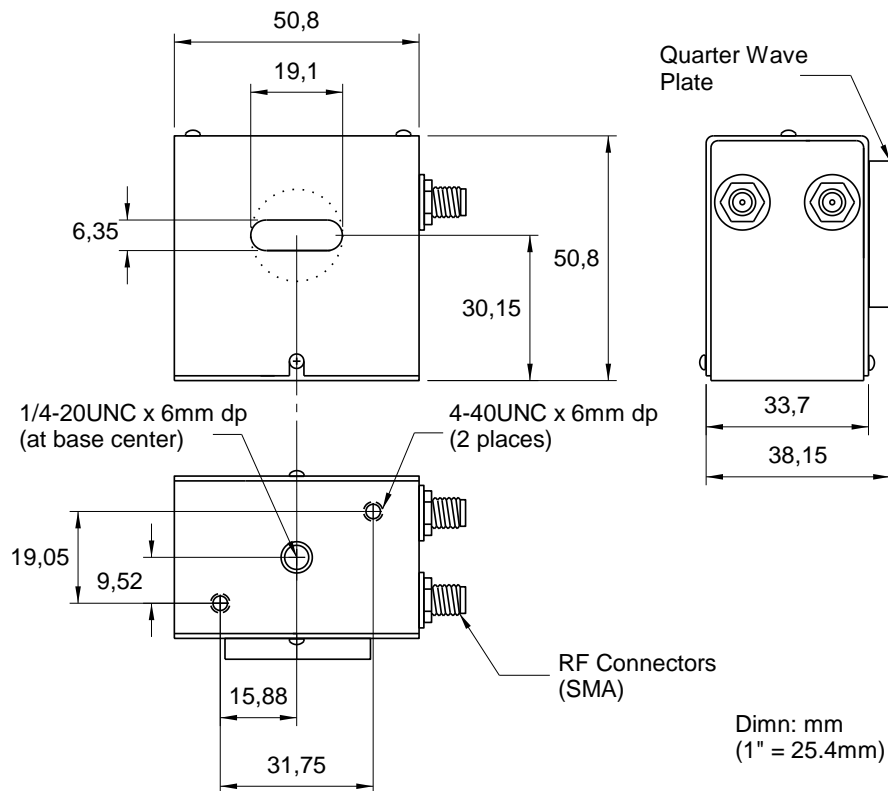
APPLICATIONS

- 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.

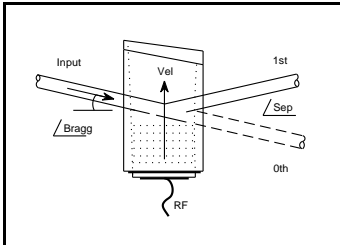
Tel: (703) 321 8301 Fax: (703) 321 8546

E-mail: ISOMET@ISOMET.COM

Web Page: WWW.ISOMET.COM

Quality Assured.

**In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding**



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SPECIFICATIONS

	<u>LS110-830</u>	<u>LS110-1064</u>	<u>LS110(HF)-1.06</u>	<u>LS110-1.35</u>	<u>LS110-1.5</u>
Wavelength **::	830nm	1064nm	1064nm	1.35um	1.55um
Centre Freq. (Nom)	50MHz	50MHz	70MHz	50MHz	50MHz
Bandwidth Δf:	25MHz	25MHz	40MHz	25MHz	25MHz
Scan Angle/Axis:	1.9°	2.5°	3.95°	3.1°	3.6°
fc Separation Angle:	3.9°	4.9°	6.91°	6.2°	7.2°
Aperture	9.3mm / 14x4mm	9.3mm / 14x4mm	9.3mm / 14x4mm	14x4mm	14x4mm
Resolution:					
9.3mm Beam (-C)	375	375	600		
14x4mm Beam	550*	550*	880*	550*	550*
Throughput Efficiency	> 40%	> 40%	> 40%	> 30%	> 30%

Aperture:

LS110-xxxx-C
LS110-xxxx

9.3mm diameter
14mm W x 4mm H

Access Time (t):

15 μs (-C) 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:

50Ω Nominal

RF DRIVE ELECTRONIC OPTIONS

VCO driver/amplifier:

D321-BS / D331-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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