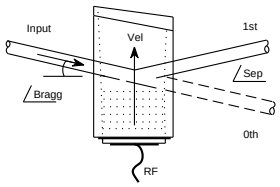


M1212-aQ150-2-(A/R)

Acousto-Optic Modulator

FOR USE WITH UV LASERS

1114

SPECIFICATIONS

A/R Operating Wavelength*:	248nm, 325-364nm
Center Frequency, fc:	150 MHz
RF Bandwidth, Δf:	40 MHz
Diffraction Efficiency:	> 85%
Input Impedance:	50Ω (nominal)
Input VSWR:	<1.5:1 @ 150 MHz
Active Aperture:	2.0 mm
Optical Insertion Loss:	< 3%
Reflectivity:	< 0.5%/Surface
DC Contrast Ratio:	> 1000:1 min, 2000:1 typical
Laser Polarization:	Vertical, perpendicular to base
Outline Dimensions:	(See reverse side)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	248	325	351	363
RF Drive Power (Watts):	2.0	3.5	4.1	4.3
Bragg Angle (mrad):	3.3	4.3	4.6	4.8
Separation Angle at fc (mrad):	6.5	8.6	9.2	9.6
Scan Angle for Δf (mrad):	1.7	2.2	2.4	2.5

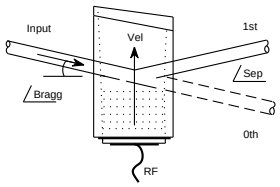
PERFORMANCE vs. BEAM DIAMETER at 351nm

Beam Diameter (mm):	1.0	0.5	0.2
Risetime (nsec):	112	57	25
Video Bandwidth (MHz):	3	6	14
Diffraction efficiency (typ): for 3W RF drive	85%	80%	75%

(* other UV wavelengths on request)

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



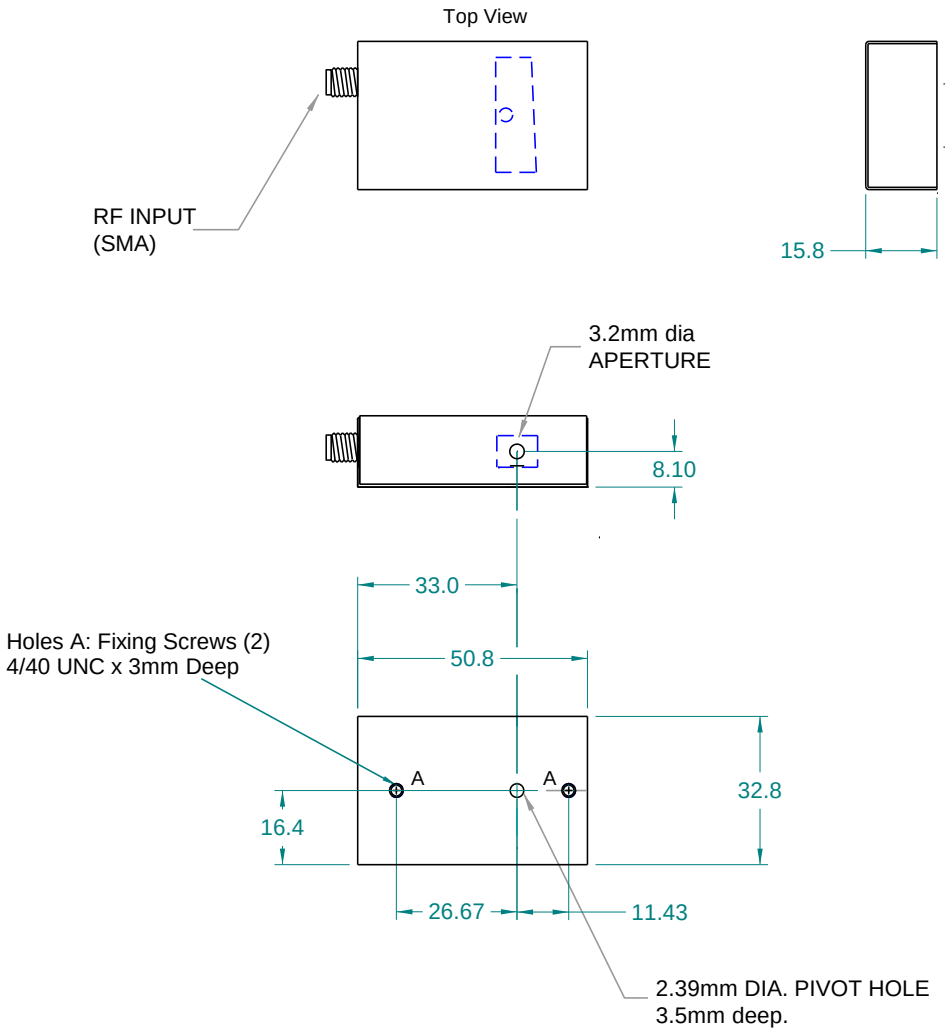
M1212-aQ150-2-(A/R)

Acousto-Optic Modulator

FOR USE WITH UV LASERS

1114

OUTLINE DRAWING



RF Drive Electronics

Digital modulation	524C-3
Analog modulation	534C-3
Tuneable with modulation	630A-150 / iSPA-SF1-d

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