

M1212-aQ200-0.8

Acousto-Optic Modulator

for use with UV LASERS



0421

SPECIFICATIONS

A/R Operating Wavelength*:	230nm, 248nm, 325-364nm
Material:	Quartz
Acoustic velocity:	5.7mm/usec
Center Frequency:	200 MHz
RF Bandwidth	60 MHz
Diffraction Efficiency:	> 85%
Input Impedance:	50Ω(Nominal)
Input VSWR:	< 1.5:1 @ 200MHz
Active Aperture:	0.8mm
Optical Insertion Loss:	< 8%
Reflectivity:	< 0.5%/Surface
DC Contrast Ratio:	>1000:1 min (2000:1 typical)
Laser Polarization:	Vertical, Perpendicular to Base
Outline Dimensions:	(See Reverse Side)

Estimated PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	230	248	355
RF Drive Power (Watts):	1.6	1.8	3.7 peak (2W avg limit)
Bragg Angle (mrad):	4.04	4.35	6.23
Separation Angle (mrad):	8.07	8.7	12.46

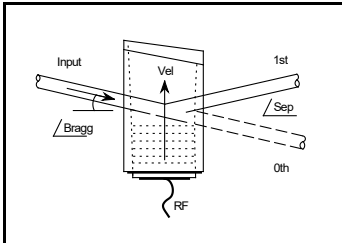
Estimated PERFORMANCE vs. BEAM DIAMETER at 248nm

Beam Diameter (mm):	0.8	0.2	0.1
Risetime (nsec):	90	23	12
Video Bandwidth (MHz):	4	15	29
Diffraction efficiency (typ):	87%	84%	79%

(* other UV wavelengths on request)

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, USA.
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Quality Assured.
In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding



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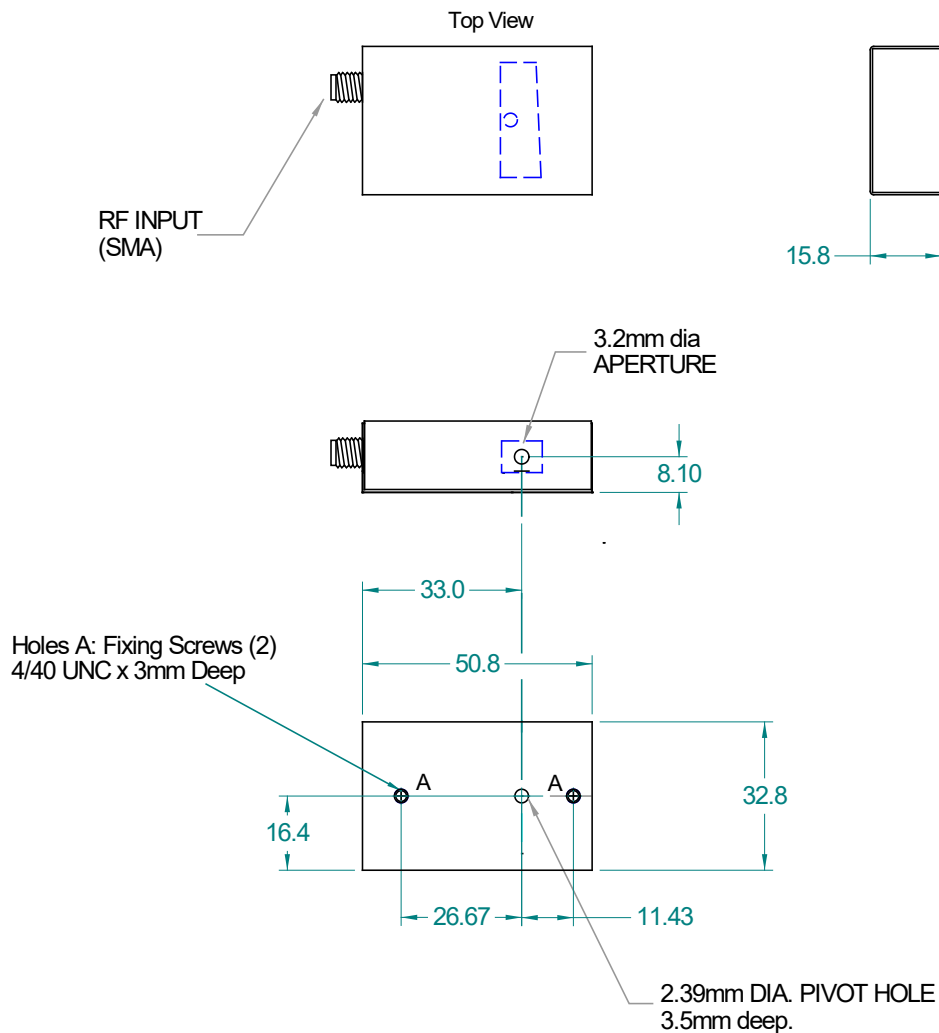


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OUTLINE DRAWING



Suggested RF Drive Electronics:

Dual modulation
Tuneable with modulation

555F-4
iMS4-L (-P) plus AF0-200T-4

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