

M1212-aQ150-2



Acousto-Optic Modulator/Frequency Shifter

for use with UV LASERS

0419

SPECIFICATIONS

Operating Wavelength:	257nm, 355nm (other AR coatings available)
Material:	Quartz
Acoustic velocity:	5.7mm/usec
Center Frequency:	150 MHz
RF Bandwidth:	40 MHz
Diffraction Efficiency:	> 85%
Input Impedance:	50Ω(Nominal)
Input VSWR:	< 1.5:1 @ 150MHz
Active Aperture:	2.0mm
Optical Insertion Loss:	< 5%
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):	257	355
RF Drive Power (Watts):	2.6	5
Bragg Angle (mrad):	3.38	4.67
Separation Angle (mrad):	6.76	9.34

PERFORMANCE vs. BEAM DIAMETER at 257nm

Beam Diameter (mm):	1.0	0.25
Risetime (nsec):	112	30
Video Bandwidth (MHz):	3	12
Diffraction efficiency (min %):	85	80

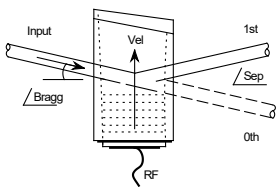
for 2.4W RF driver power

Suggested RF Drive Electronics:

Digital modulation	524C-4
Analog modulation	534C-4
Dual modulation	554F-4
Tuneable with modulation	620A/630A-150

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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Quality Assured.
 In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding



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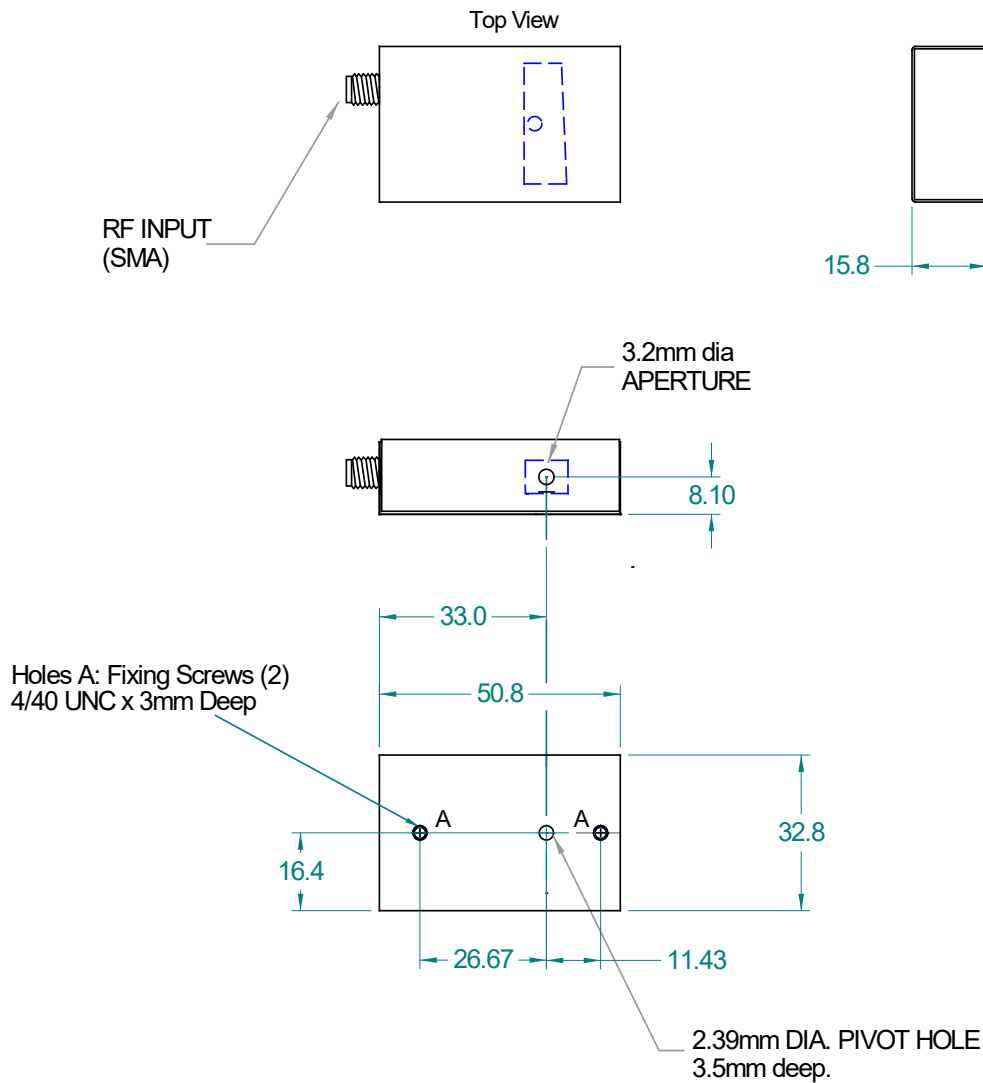


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OUTLINE DRAWING



Caution: Mount on heat conducting surface

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