

1212-248

Acousto-Optic Modulator

for use with UV LASERS

1106

SPECIFICATIONS

Operating Wavelength:	248 nm
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:	1.0mm
Optical Insertion Loss:	< 9%
Reflectivity:	< 1.0%/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):	248
RF Drive Power (Watts):	1.6
Bragg Angle (mrad):	4.35
Separation Angle (mrad):	8.7

Estimated PERFORMANCE vs. BEAM DIAMETER at 248nm

Beam Diameter (mm):	1.0	0.2	0.1
Risetime (nsec):	112	23	12
Video Bandwidth (MHz):	3	15	29
Diffraction efficiency (typ):	86%	84%	79%

Suggested RF Drive Electronics:

Digital modulation	Isomet Model 525c or 225B-1
Analog modulation	Isomet Model 535c or 235B-1
Tuneable with modulation	Isomet Model 630c-200

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.

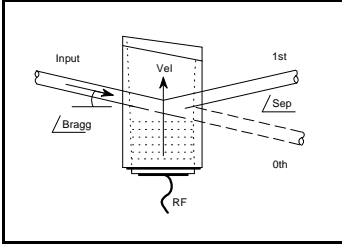
**In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding**

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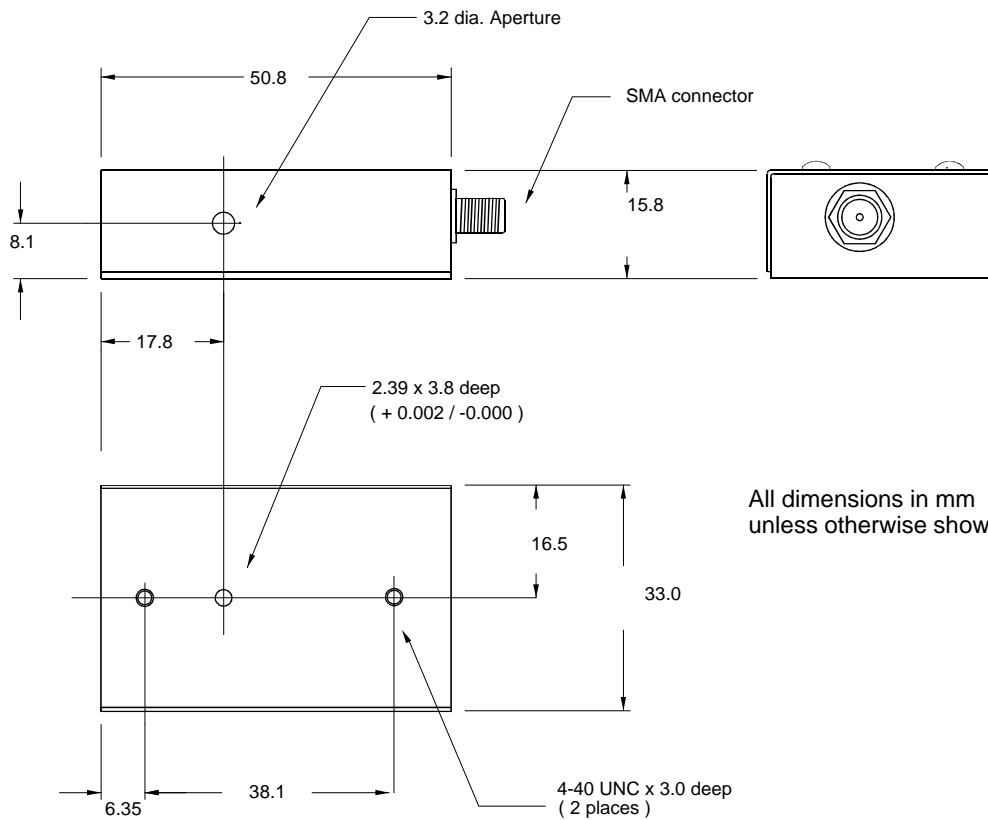
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OUTLINE DRAWING



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