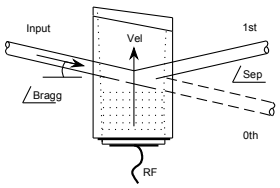


1212

Acousto-Optic Modulator

for use with UV LASERS

1106

SPECIFICATIONS

Operating Wavelength:	325-363 nm (singly or combined)
Material:	Quartz
Acoustic velocity:	5.7mm/usec
Center Frequency:	175 MHz
RF Bandwidth	60 MHz
Diffraction Efficiency:	> 85%
Input Impedance:	50Ω(Nominal)
Input VSWR:	< 1.5:1 @ 175MHz
Active Aperture:	1.0mm
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):	325	355	363
RF Drive Power (Watts):	2.4	2.8	3.2
Bragg Angle (mrad):	5.0	5.5	5.6
Separation Angle (mrad):	10.0	10.9	11.1

PERFORMANCE vs. BEAM DIAMETER at 355nm

Beam Diameter (mm):	1.0	0.2	0.1	0.06
Risetime (nsec):	112	24	13	10
Video Bandwidth (MHz):	3	15	27	35
Diffraction efficiency (typ %):	87	84	74	58

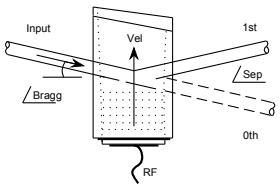
RF Drive Electronics:

Digital modulation	525C-175
Analog modulation	535C-175
Tuneable Frequency	620C/630C-150

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



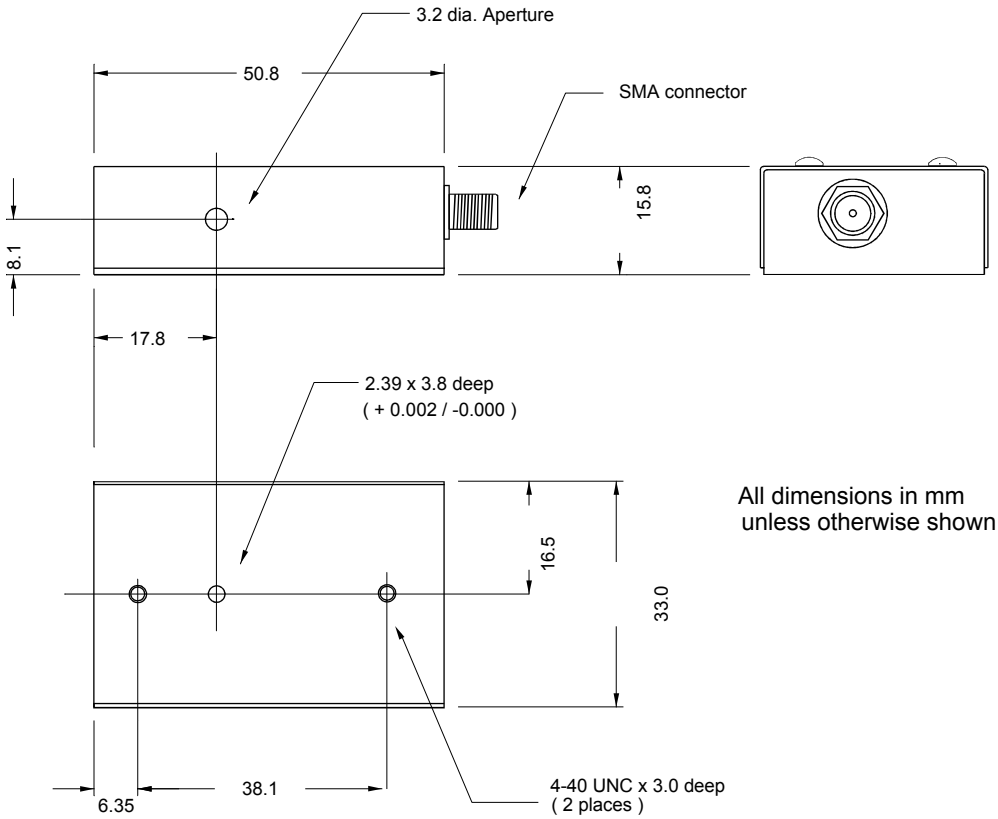
1212

Acousto-Optic Modulator

for use with UV LASERS

1106

OUTLINE DRAWING



All dimensions in mm
unless otherwise shown

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