

1212-2-949

Acousto-Optic Modulator

FOR USE WITH UV LASERS



1106

SPECIFICATIONS

Operating Wavelength:	325-364 nm (singly or combined)
Center Frequency, f_c :	150 MHz
RF Bandwidth, Δf :	40 MHz
Diffraction Efficiency:	> 85%
Input Impedance:	50 Ω (Nominal)
Input VSWR:	<1.5:1 @ 150MHz
Active Aperture:	2.0mm
Optical Insertion Loss:	<3%
Reflectivity:	<0.5%/Surface
DC Contrast Ratio:	>1000:1
Laser Polarization:	Vertical, Perpendicular to Base
Outline Dimensions:	(See Reverse Side)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	325	351	363
RF Drive Power (Watts):	2.4	2.8	3.2
Bragg Angle (mrad):	4.3	4.6	4.8
Separation Angle at f_c (mrad):	8.6	9.2	9.6
Scan Angle for Δf (mrad):	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):	87%	87%	80%

RF Drive Electronics

Digital modulation	524C-3
Analog modulation	534C-3
Tuneable Frequency	620C/630C-150

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

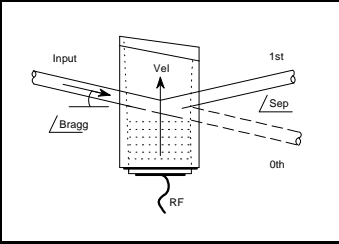
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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Quality Assured.

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



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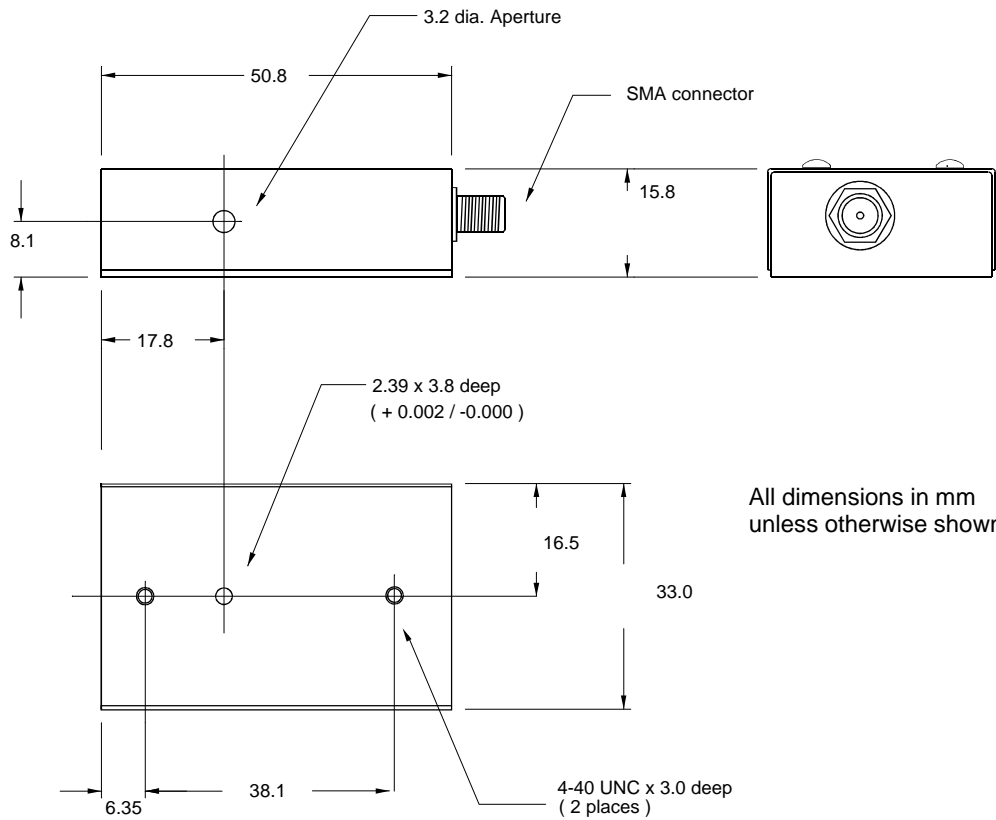
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OUTLINE DRAWING



All dimensions in mm
unless otherwise shown

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