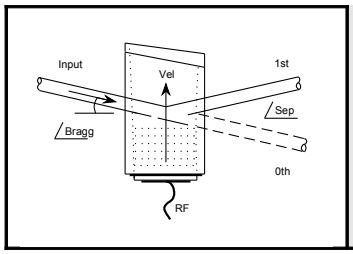


1201E-964

Acousto-Optic Modulator

ISOMET

0411

The 1201E-964 is optimised for operation with the new series of frequency doubled YAG lasers in the 5 - 10 Watt optical power region. This model features a 3mm aperture, high efficiency and is convection cooled.

SPECIFICATIONS

Spectral Range:	440 - 633nm
Interaction Medium:	Dense Flint Glass
Acoustic Velocity:	3.509mm/usec
Active Aperture:	3.0mm
Centre Frequency (C.F.):	70MHz
Input Impedance:	50 Ohms Nominal
Input VSWR:	≤ 1.5:1 @ 70MHz
RF Bandwidth:	20MHz
Optical Power Density:	80KW/cm²
DC Contrast Ratio:	>1000:1 min (2000:1 typical)

PERFORMANCE VS. WAVELENGTH

Operating Wavelength (nm):	488	515	532
Drive Power (W):	4.0	4.5	4.8
Bragg Angle (mrad):	4.9	5.1	5.3
Beam Separation (mrad):	9.7	10.2	10.6
Static Insertion Loss (%):	<7	<6	<6

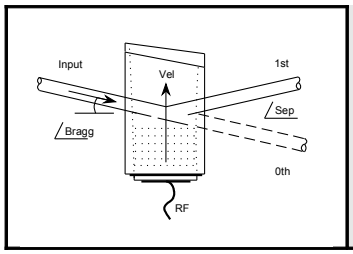
PERFORMANCE VS. BEAM DIAMETER

Beam Diameter (mm):	3.0	1.5	1.0	0.5
Rise Time (nsec):	555	279	185	93
Video Bandwidth (MHz):	0.63	1.25	1.9	3.8
Diff Eff (% @ C.F.):	90	90	90	90

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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DRIVERS

Digital Modulation:	522C-6-70
Analog Modulation:	532C-6-70
Frequency Modulation:	D322B, RFA-105

OUTLINE DRAWING

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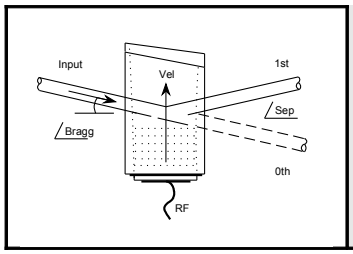

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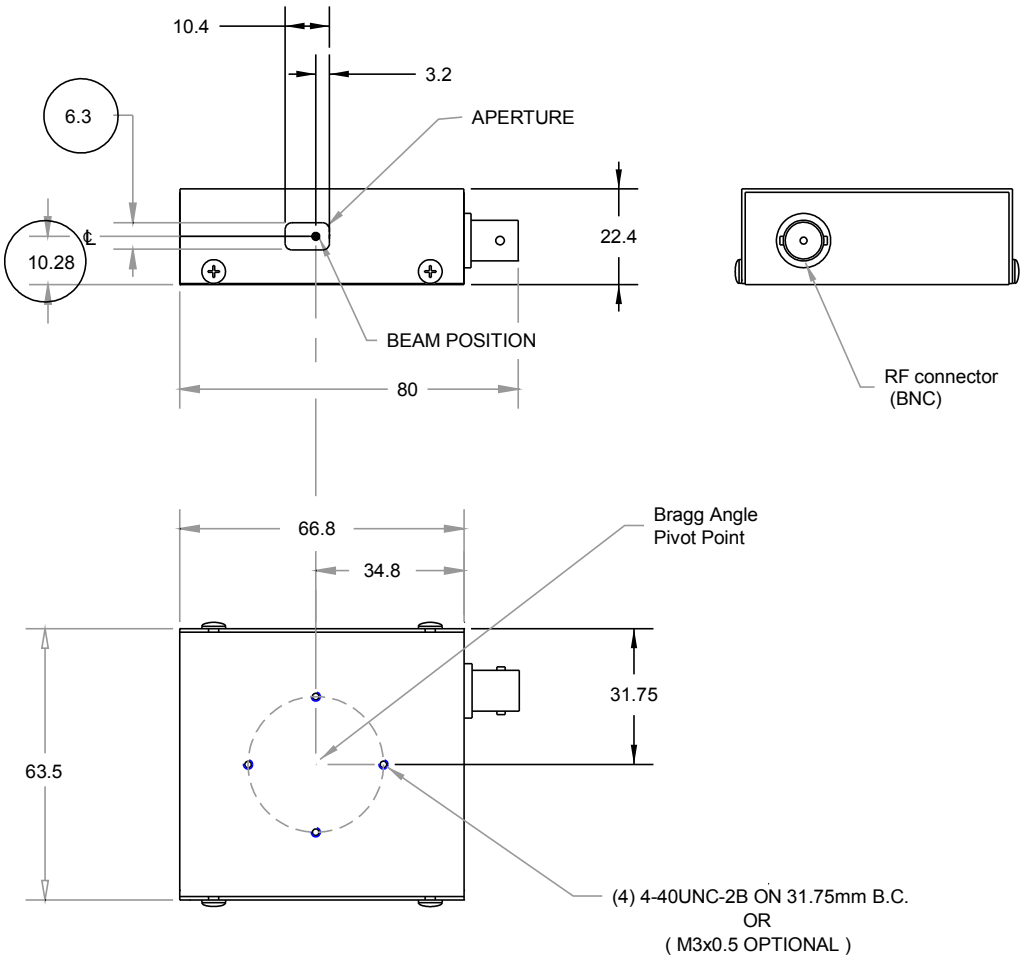

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