

1201E-1(2)

Acousto-Optic Modulator



0411

APPLICATIONS

- Intensity Modulator
- Frequency Shifter

FEATURES

- 7MHz Video Bandwidth
- Good Temperature Stability

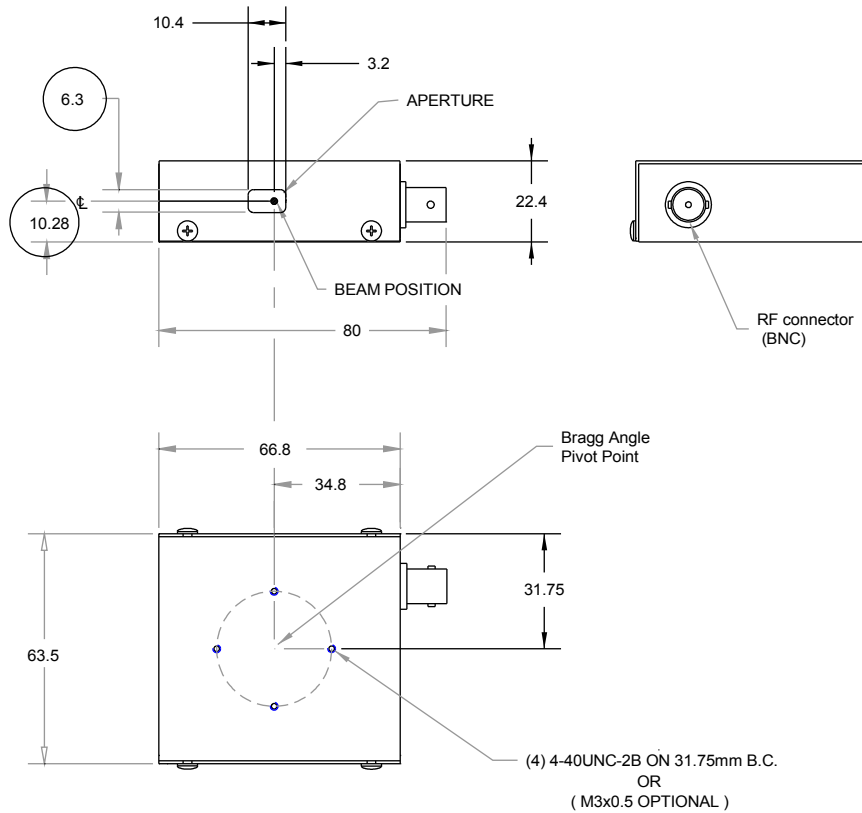
MODEL NUMBER

1201E-1
1201E-2

OPERATING WAVELENGTH

440nm- 633nm
NIR/1.06 μ m

OUTLINE DRAWING



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

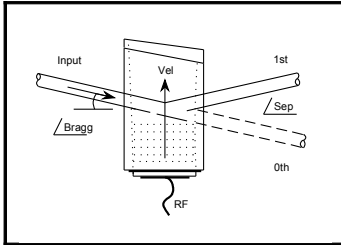
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

Tel: (703) 321 8301 Fax: (703) 321 8546

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Quality Assured.

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



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SPECIFICATIONS

Spectral Range:	Model 1201E-1, 440-633nm Model 1201E-2, 1.06 μ m
Interaction Medium:	Dense Flint Glass
Acoustic Velocity:	3.509mm/ μ s
Active Aperture:	1.7mm
Centre Frequency (CF):	40MHz
Input Impedance:	50 Ω
Input VSWR:	<1.5:1 @ 40MHz
Optical Power Density:	80KW/cm ² Gaussian Beam
DC Contrast Ratio:	>1000:1 min (2000:1 typical)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	442	515	633	1060
Drive Power (W):	0.8	1.1	1.6	6.0
Bragg Angle (mr):	2.5	3.0	3.6	6.0
Beam Separation (mr)	5.0	5.9	7.2	12.0
Static Insertion Loss (%)*:	15	6	6	5

PERFORMANCE vs. BEAM DIAMETER

				<u>1201E-1 ONLY</u>
Beam Diameter (mm):	1.7	1.0	0.5	0.25
Rise Time*:	315	185	93	46
Video Bandwidth (MHz):	1.2	1.9	3.8	7
Deflection Efficiency (% @ C.F.):	90	90	90	70

DRIVERS:

	<u>DIGITAL MODULATION</u>	<u>ANALOG MODULATION</u>
1201E-1	521C	531C
1201E-2	521C-6	531C-6

*TEM₀₀ Gaussian Beam profile

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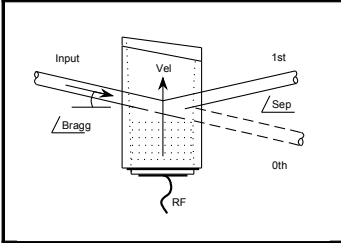
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