

M1201-SF40-1.7

Acousto-Optic Modulator



2922

MODEL NUMBER

M1201-SF40-1.7VB
M1201-SF40-1.7VE
M1201-SF40-1.7N2

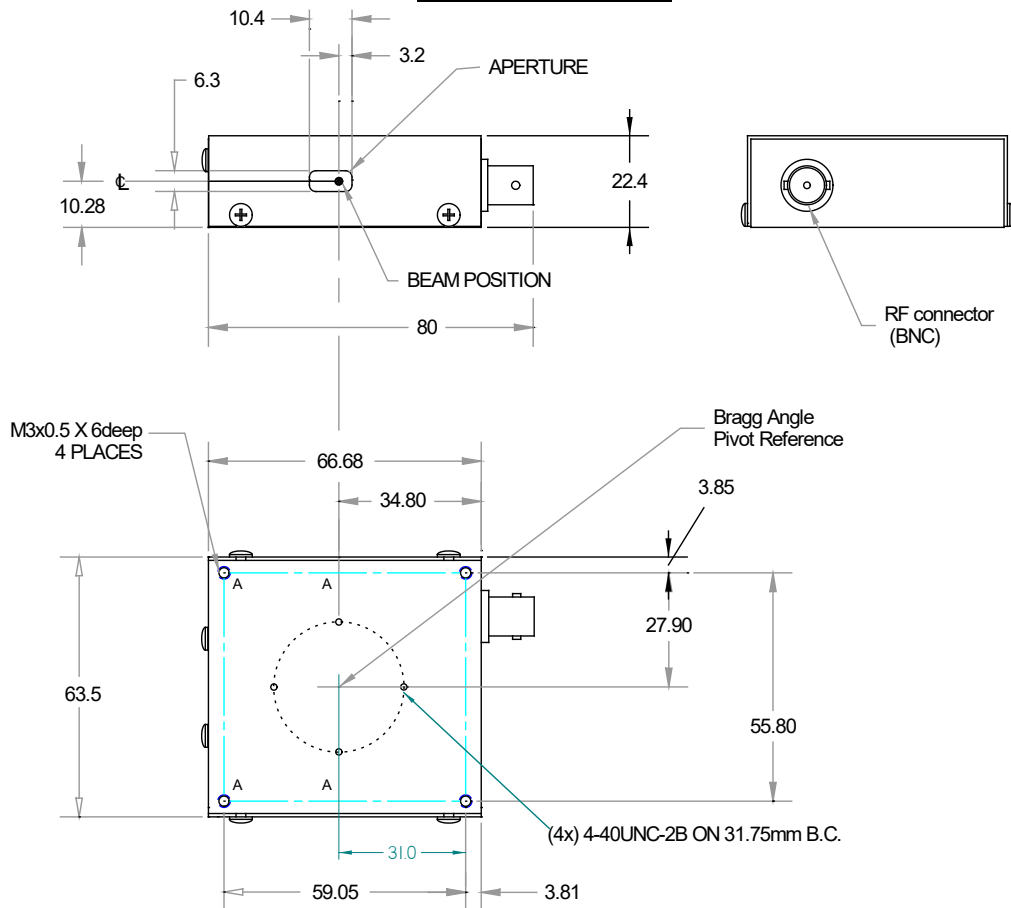
OPERATING WAVELENGTH

400nm-700nm
633-830nm
1.06 μ m

APPLICATIONS

- Intensity Modulator
- Moderate Resolution Deflector
- Frequency Shifter

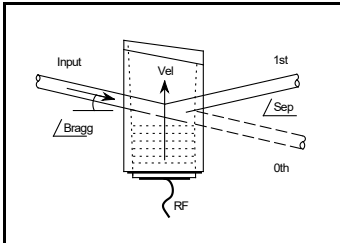
OUTLINE DRAWING



Both metric and UNC mounting holes

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, 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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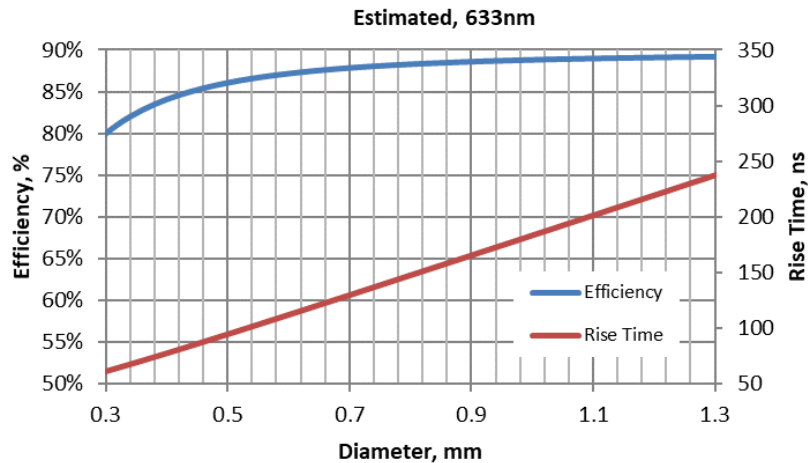
SPECIFICATIONS

A/R Spectral Range:	400-700nm, 633-830nm or 1.06 μ m
Interaction Medium:	Dense Flint Glass
Acoustic Velocity:	3.509mm/ μ s
Active Aperture:	1.7mm
Centre Frequency (CF):	40MHz
RF Bandwidth:	10MHz
Input Impedance:	50 Ω
Input VSWR:	<1.5:1 @ 40MHz
DC Contrast Ratio:	>1000:1 min (2000:1 typical)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	442	515	633	780	1060
Drive Power (W):	0.8	1.1	1.6	3.1	5.0
Bragg Angle (mrad):	2.5	3.0	3.6	4.5	5.7
Beam Separation (mrad):	5.0	5.9	7.2	8.9	11.4
Static Insertion Loss (%)*:	15	6	6	5	5

PERFORMANCE vs. BEAM DIAMETER



RF DRIVE ELECTRONICS

	-1.7V ₋	-1.7N ₋
Dual modulation	551F-2	551F-6
Tuneable with modulation	630C-40	630A-40
	iSK3-100T-1-1	iSK3-45T-1-4

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