

M1088(M)-FS110L-3.5



UV Acousto-Optic Modulator

(PRELIMINARY DATA SHEET)

0308

The M1088-FS110L is optimised for operation with UV lasers in the 330-360nm wavelength range. This model features a 3.5 mm active aperture, exhibits high efficiency and is convection cooled.

SPECIFICATIONS

Interaction Medium:	Fused Silica
Acoustic Velocity:	5.960mm/μs
Operating Wavelength:	325-364 nm (singly or combined)
Center Frequency, f_c :	110 MHz
RF Bandwidth, Δf :	> 20 MHz
Diffraction Efficiency:	> 80%
Input Impedance:	50Ω(Nominal)
Input VSWR:	<1.5:1 @ 110MHz
Active Aperture:	3.0mm
Optical Insertion Loss:	<3%
Reflectivity:	<0.5%/Surface
DC Contrast Ratio:	>1000:1 (>2000:1 Typical)
Laser Polarization:	Vertical, Perpendicular to Base
Peak Optical Power Density:	250MW/cm ²
Outline Dimensions:	(See Reverse Side)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	325	355	363
RF Drive Power (Watts):	5.0	6.0	6.5
Bragg Angle (mrad):	3.0	3.3	3.4
Separation Angle at f_c (mrad):	6.0	6.6	6.7

ESTIMATED PERFORMANCE vs. BEAM DIAMETER at 355nm

Beam Diameter (mm):	3.0	1.7	0.5
Risetime (nsec):	320	182	55
Video Bandwidth (MHz):	1	2	6
Diffraction efficiency (typ):	85%	83%	80%

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

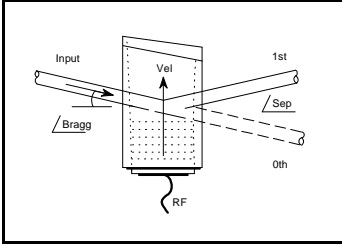
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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Quality Assured.

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



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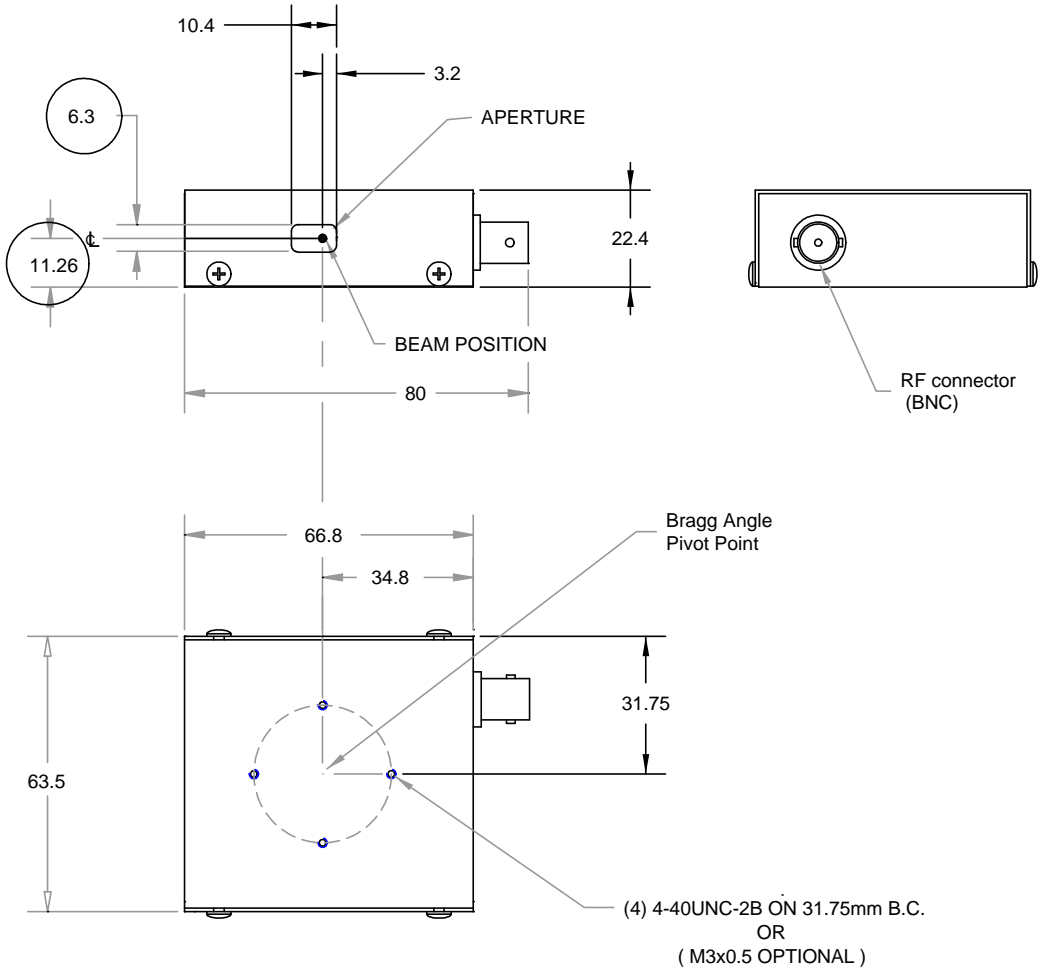
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DRIVERS

Digital Modulation: 523C-6
 Analog Modulation: 533C-6

OUTLINE DRAWING

Dim'n : mm



Include the suffix (M) to the model number for M3 metric mounting holes

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