

# 1206C-2-1002

## Acousto-Optic Modulator



1106

The Model 1206C-2-1002 is designed primarily for use in holographic mastering applications. The low RF drive power required by the 1206C-2-1002 results in very stable and dependable operation.

### SPECIFICATIONS

Interaction Material:	TeO <sub>2</sub> (Longitudinal Mode)
Standard Operating Wavelengths:	360 – 420nm , 442 - 488nm
Polarization:	Vertical preferred
Acoustic Velocity:	4200 m/s
Clear Aperture:	2.0 mm
Centre Frequency:	110 MHz
RF Bandwidth:	50 MHz
Input Impedance:	50 ohms (Nominal)
VSWR:	< 1.5:1 @ 110 MHz
DC. Contrast Ratio:	> 1000:1 min (2000:1 typical)

### PERFORMANCE vs. WAVELENGTH

Wavelength:	360nm	442nm	488nm
Static Insertion Loss:	≤7.0%	≤3.0%	≤3.0%
RF Power:	≤0.4W	≤ 0.6W	≤ 0.7W
Separation Angle @ 110 MHz:	9.4mrad	11.6mrad	12.8mrad
Bragg Angle @ 110MHz:	4.7mrad	5.8mrad	6.4mrad
Beam Diameter:	180um	1mm	2mm
Diffraction Efficiency:	>80.0%	>85.0%	>85.0%
Rise Time:	30ns	150ns	300ns

#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

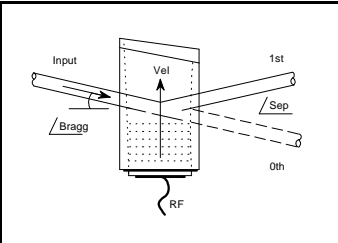
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#### Quality Assured.

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



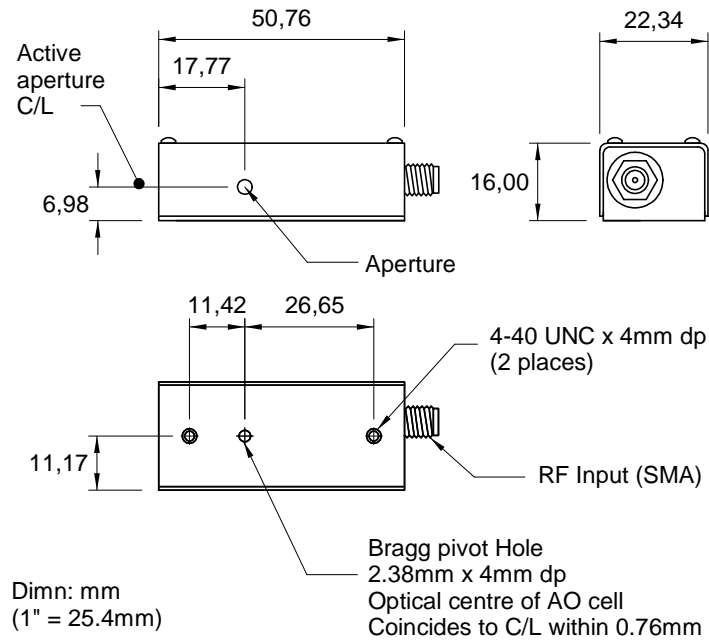
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### OUTLINE DRAWING



### DRIVERS

523C-L (Digital Modulation)

620C-100 (Variable Frequency & Digital Modulation)

533C-L (Analog modulation)

630C-100 (Variable frequency & Analog Modulation)

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