

1206C-2-1002

ISOMET

Acousto-Optic Modulator

0114

The Model 1206C-2-1002 is designed primarily for use in applications requiring very high output good beam quality and high beam pointing stability e.g. holographic mastering.

SPECIFICATIONS

Interaction Material: Te0₂ (Longitudinal Mode)
Standard Operating Wavelengths: 360 – 420nm , 442 - 488nm

Polarization: Vertical preferred

Acoustic Velocity: 4200 m/s
Active Aperture: 2mmH x 9mmW
Centre Frequency: 110 MHz

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)

360nm

PERFORMANCE

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Static Insertion Loss:	<u><</u> 7.0%	<u><4</u> .0%	<u><</u> 3.0%	<u><</u> 3.0%
RF Power:	<u><</u> 0.4W	<u><</u> 0.6₩	<u><</u> 0.6W	<u><</u> 0.7W
Separation Angle @ 110 MHz:	9.4mrad	10.6mrad	11.6mrad	12.8mrad
Bragg Angle @ 110MHz:	4.7mrad	5.3mrad	5.8mrad	6.4mrad
Beam Diameter (width):	180um	1mm	2mm	(9mm)
Diffraction Efficiency:	>80.0%	>85.0%	>85.0%	>85.0%
Rise Time (modulator use)	30ns	150ns	300ns	
Max angular resolution (deflector use)			24	100

405nm

442nm

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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

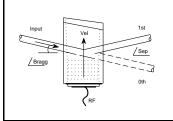
Tel: (703) 321 8301 Fax: (703) 321 8546

Wavelength:

E-mail: ISOMET@ ISOMET.COM Web Page: WWW.ISOMET.COM

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

488nm



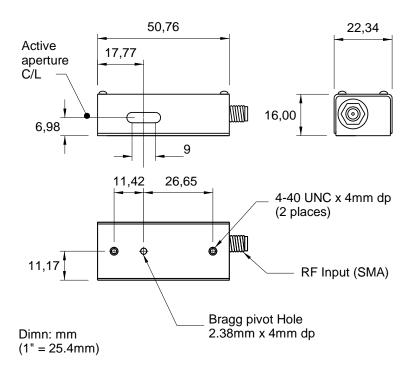
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OUTLINE DRAWING



Options:

-M = M3 metric mounting screws

DRIVERS

523C-L (Digital Modulation), 15Vdc 523C-2 (Digital Modulation), 24Vdc

620C-100 (Variable Frequency & Digital Modulation)

533C-L (Analog modulation), 15Vdc 533C-2 (Analog modulation), 24Vdc

630C-100 (Variable frequency & Analog Modulation)

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