

1210

Acousto-Optic Modulator for 2.05um



1106

APPLICATIONS

- **Modulator**
- **Frequency Shifter**

FEATURES

- **Low Drive Power**
- **Small Size**

The 1210 series AO modulator is designed specifically for operation at 2.05um, and is available with either a 105MHz or 81MHz center frequency. Input light must be linearly polarized, parallel to the mounting base.

PRELIMINARY SPECIFICATIONS

Operating Wavelength:	2.05um
Interaction Material:	Single Crystal Germanium
Acoustic Velocity:	5.5mm/us
Input Impedance:	50 Ohms (nominal)
Center Frequency (f_c):	81MHz or 105MHz
RF Bandwidth:	$f_c \pm 10$ MHz
Optical Insertion Loss:	<5%
Active Aperture:	4mm
Diffraction Efficiency:	>85%
RF Drive Power:	<1.6 Watts
Laser Polarization:	Linear/Parallel to Base (Required)
Bragg Angle:	15.1mrad @ $f_c = 81$ MHz 19.6mrad @ $f_c = 105$ MHz
Separation Angle:	30.2mrad @ $f_c = 81$ MHz 39.1mrad @ $f_c = 105$ MHz
Cooling:	Convection
Outline Dimensions:	(see reverse)

RF Drivers

81MHz: 522C / 532C-81 fixed frequency drivers
620C / 630C-80 variable frequency drivers

105MHz: 522C / 532C-105 fixed frequency drivers
620C / 630C-100 variable frequency drivers

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

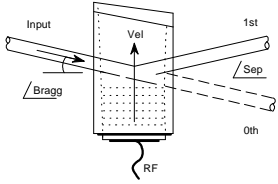
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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Quality Assured.

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



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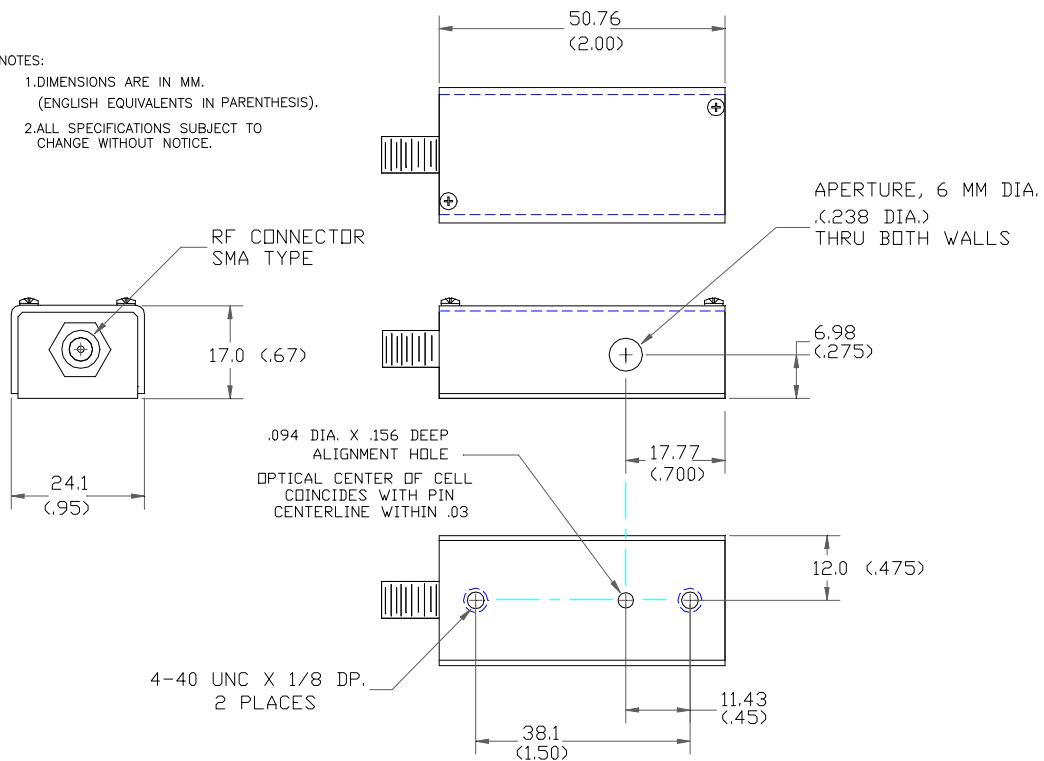


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OUTLINE DRAWING

NOTES:

1. DIMENSIONS ARE IN MM.
(ENGLISH EQUIVALENTS IN PARENTHESIS).
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