

1207B-3-FC

IR Acousto-Optic Modulator



1108

The 1207B-3 series has been optimally designed to address various experimental or application-specific requirements. With appropriate drive electronics it can be operated as a frequency shift/deflector and/or as an intensity modulator.

SPECIFICATIONS

Spectral Range:	2.5 μ m - 11 μ m
Operating Wavelength:	10.6 μ m (others on request)
Interaction Medium:	Single Crystal Germanium
Acoustic Velocity:	5.5mm/ μ s
Center Frequency* (fc) and RF Bandwidth (Δ f):	
	fc / Δ f
1207B-3-40	40MHz / 16MHz
1207B-3-60	60MHz / 8MHz
1207B-3-80	80MHz / 4MHz
Input Impedance:	50 Ω
Input VSWR:	<1.5:1 at fc
RF power:	25W nominal
Optical Insertion Loss:	<14%
Reflectivity:	< 0.5%/Surface
Laser Polarization:	Linear, Horizontal, Parallel to Base
Active Aperture:	3mmH x 12mmL
Water Cooling (minimum)	250ml/minute at 25 $^{\circ}$ C
Outline Dimensions:	(See reverse)

DRIVERS

40MHz Modulator Driver/Amplifier	RFA141
50MHz Modulator Driver/Amplifier	RFA151
60MHz Modulator Driver/Amplifier	RFA161
30-50MHz Deflector Driver/Amplifier	RFA321

* Other frequencies available

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

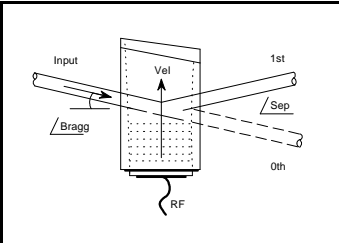
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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Quality Assured.

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



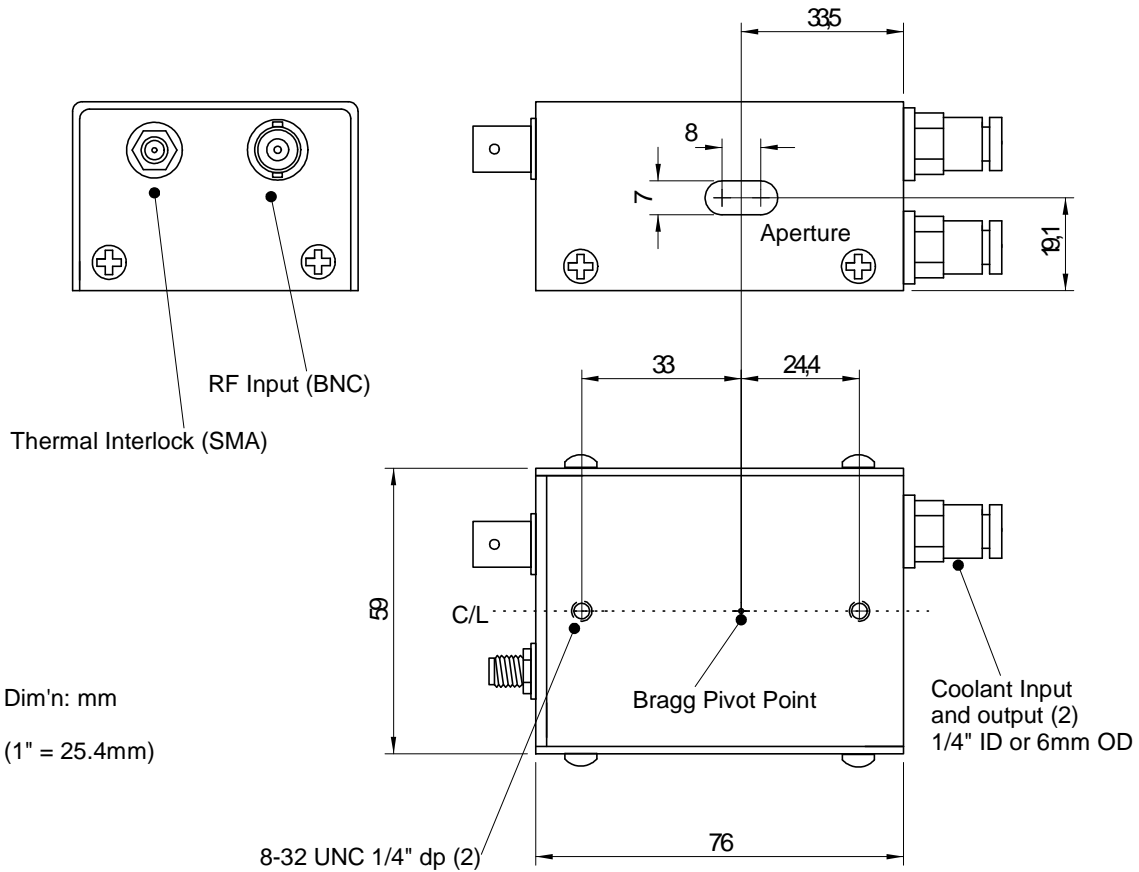
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OUTLINE DRAWING



Options:

Metric base screws available. Add suffix -M

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