**SPECIFICATIONS**

Standard A/R Spectral Range: 9.4μm or 10.6μm "V" coat
(9 -11μm option available)

Interaction Medium: Single Crystal Germanium
Acoustic Velocity: 5.5mm/μs

Centre Frequency (fc): 40MHz
RF Bandwidth (Δf): 10MHz
Input Impedance: 50Ω
Input VSWR: < 1.5:1 at 40MHz

Optical Insertion Loss: < 5%
Reflectivity (average across range): < 1%/Surface
Laser Polarization: Linear Horizontal, Parallel to Base
Optical Power (Maximum): 50 Watts (full aperture)
Active Aperture: 3 mmH x 8 mmL

Water Cooling (minimum): 2 litre/minute at < 20ºC
Outline Dimensions: (See reverse)

**TYPICAL PERFORMANCE**

Input beam diameter: 3mm

Optical access time: 0.35us
Diffraction Efficiency: > 80%
Optical Power: 50 Watts *

**Wavelength:** 10.6um
RF Drive Power: < 65W
Bragg Angle (mrad): 38.5
Separation Angle (mrad): 77.1

* For higher powers please contact Isomet
Due to RF drive power dissipation, the M1208 requires water-cooling to prevent thermal runaway (>2L/min at < 20degC). The integral NC thermal interlock switch opens at 32 deg C.

The water cooled case parts are aluminium. It is strongly recommended that a corrosion inhibitor is added to the cooling system.

**DRIVERS**

Modulator Driver/Amplifier   RFA241