

1208-6BS-955M



200W IR Acousto-Optic Deflector

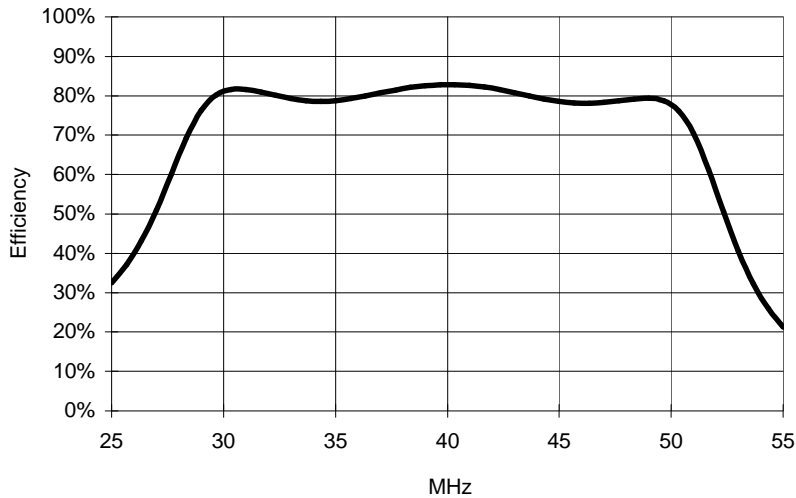
1106

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
Centre Frequency (fc):	40MHz
RF Bandwidth (Δ f):	20MHz
Input Impedance:	50 Ω
Input VSWR:	< 1.5:1 at 40MHz
Optical Insertion Loss:	< 6%
Reflectivity:	< 0.5%/Surface
Laser Polarization:	Linear Horizontal, Parallel to Base
Active Aperture:	6 mmH x 14 mmL
Water Cooling (minimum):	1L/minute at 20°C
Outline Dimensions:	(See reverse)

TYPICAL PERFORMANCE

Input beam Size :	6mm circular	14mmL x 6mmH
Resolution (Maximum):	21	50
Frequency access time :	1.1 μ s	2.54 μ s
Diffraction Efficiency:	> 75% across scan minimum > 80% across scan typical	
Optical Power (Maximum):	200 Watts (full aperture)	
RF Power per channel:	30 Watts (Nominal)	
Bragg Angle:	38.5mrad	
Separation Angle at fc :	77.1mrad	
Scan Angle Δ f=20MHz:	38.5mrad	



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

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

Quality Assured.

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



1208-6BS-955M

200W IR Acousto-Optic Deflector

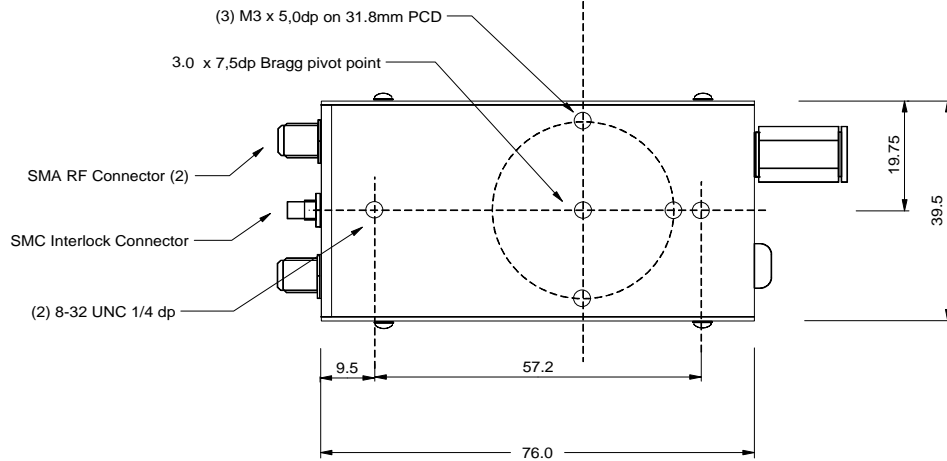
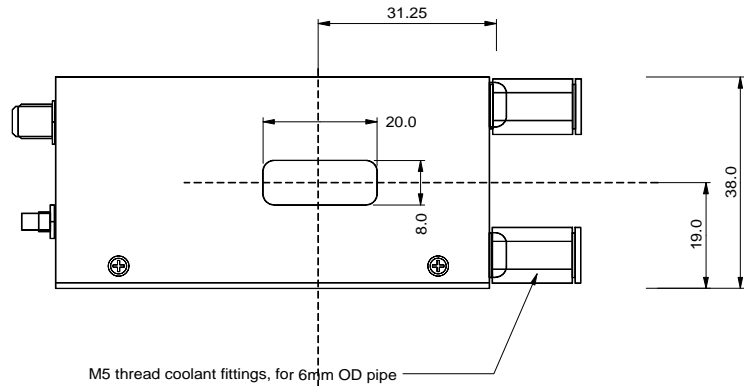
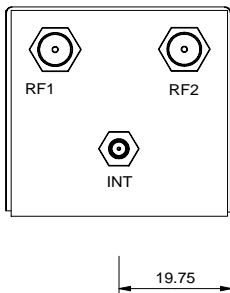


1106

OUTLINE DRAWING

1208-6BS-955 Outline

Dimensions: mm unless otherwise indicated



The 1208-6BS requires water cooling to prevent thermal runaway (>1L/min at < 20degC). The integral NC thermal interlock switch opens at 32 deg C.

The water cooled case parts are aluminium. It is recommended that a corrosion inhibitor such as 'Copal' by Fernox is added to the cooling system.

DRIVER

Deflector Driver/Amplifier

RFA331/2

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

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

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