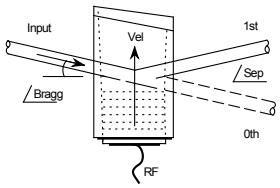


D1340-aQ130-5

ISOMET

UV Acousto-Optic Modulator/Deflector

(Preliminary Data)

0420

The D1340-aQ130-5 is high speed, high efficiency AO deflector optimized for 280nm laser applications.

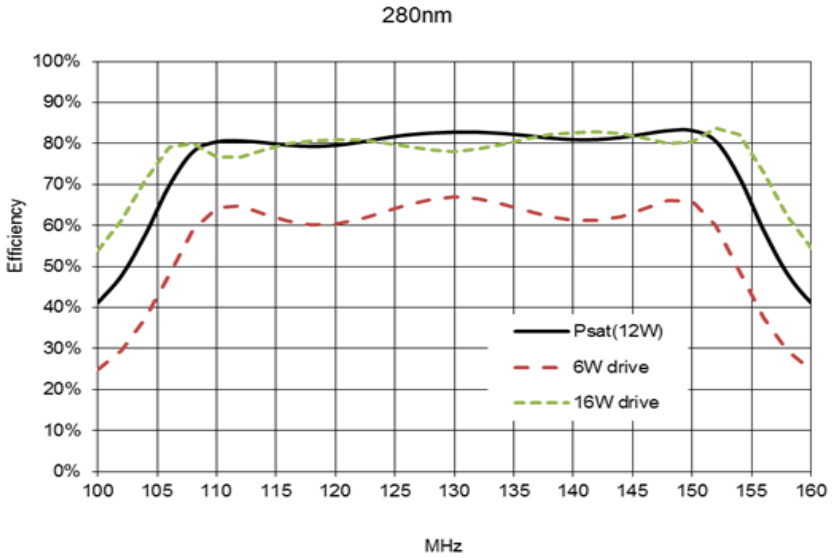
SPECIFICATIONS

Operating Wavelength:	280nm
Centre Frequency (fc):	130MHz
RF Bandwidth:	30MHz minimum
Diffraction Efficiency:	>85% at fc
Input Impedance:	50Ω(Nominal)
Input VSWR:	<1.5:1 @ 130MHz
Active Aperture:	5mm
Optical Insertion Loss:	<3% (<2% typical)
Reflectivity:	<0.5%/Surface
DC Contrast Ratio:	>2500:1 min (5000:1 typical)
Laser Polarization:	Vertical, Perpendicular to scan
Water Cooling (Min):	2L/minute @ 25deg C

PERFORMANCE vs. WAVELENGTH

Wavelength:	280nm
RF Drive Power:	12 W
Bragg Angle:	3.2mrad
Separation Angle (at fc):	6.4mrad
Scan Angle (△f = 30MHz):	1.5 mrad

ESTIMATED SCAN RESPONSE

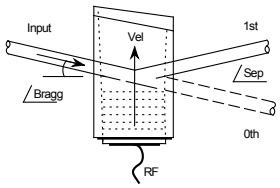


ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP,10342 Battleview Parkway, Manassas, VA 20109, 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



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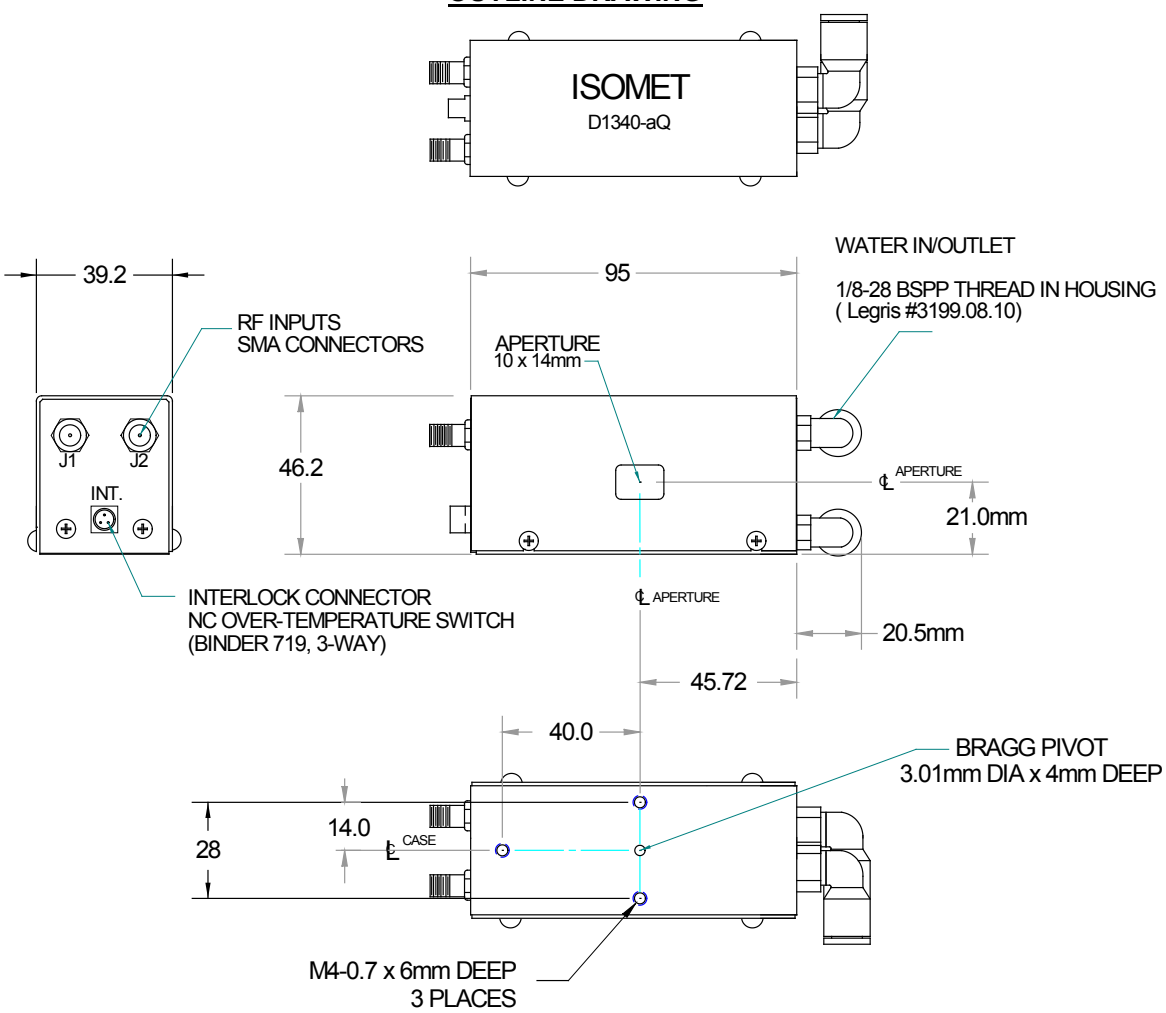
OUTLINE DRAWING



Water cooled case parts are Aluminium.

Refer application note AN1906 regarding Coolant Specification

DRIVERS

VCO based:	Driver/Amplifier	RFA3130-2
Synthesizer based:	iMS4-L (or –P) programmable synthesizer +	RFA0130-2 amplifier

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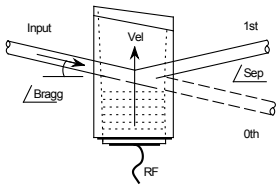

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