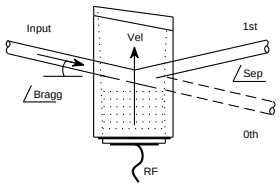


M1211-aQ150-2-(A/R)

UV Acousto-Optic Modulator

ISOMET

1114

The 1211 has been designed specifically for high beam pointing stability and low dynamic wavefront distortion.

SPECIFICATIONS

A/R Operating Wavelength:	330-360nm
Centre Frequency:	150MHz
RF Bandwidth:	>20MHz
Diffraction Efficiency:	>85%
Input Impedance:	50Ω(Nominal)
Input VSWR:	<1.5:1 @ 150MHz
Active Aperture:	2.5mm
Optical Insertion Loss:	<3% (<2% typical)
Reflectivity:	<0.7%/Surface
DC Contrast Ratio:	>1000:1 min (2000:1 typical)
Laser Polarization:	Vertical, Perpendicular to Base
Water Cooling (Min):	250ml/minute @ 25 deg C
Outline Dimensions:	(See reverse side)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	355
RF Drive Power (Watts):	3.5
Bragg Angle (mrad):	4.67
Separation Angle (mrad)	9.34

PERFORMANCE vs. BEAM DIAMETER

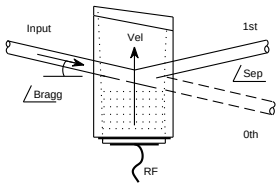
Beam Diameter (mm):	2.0	1 .5	1.0	0.5
Risetime (nsec):	227	170	113	57
Video Bandwidth (MHz):	1.5	2	3	6.1

RF Drive Electronics

Digital modulation	524C-4
Analog modulation	534C-4

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



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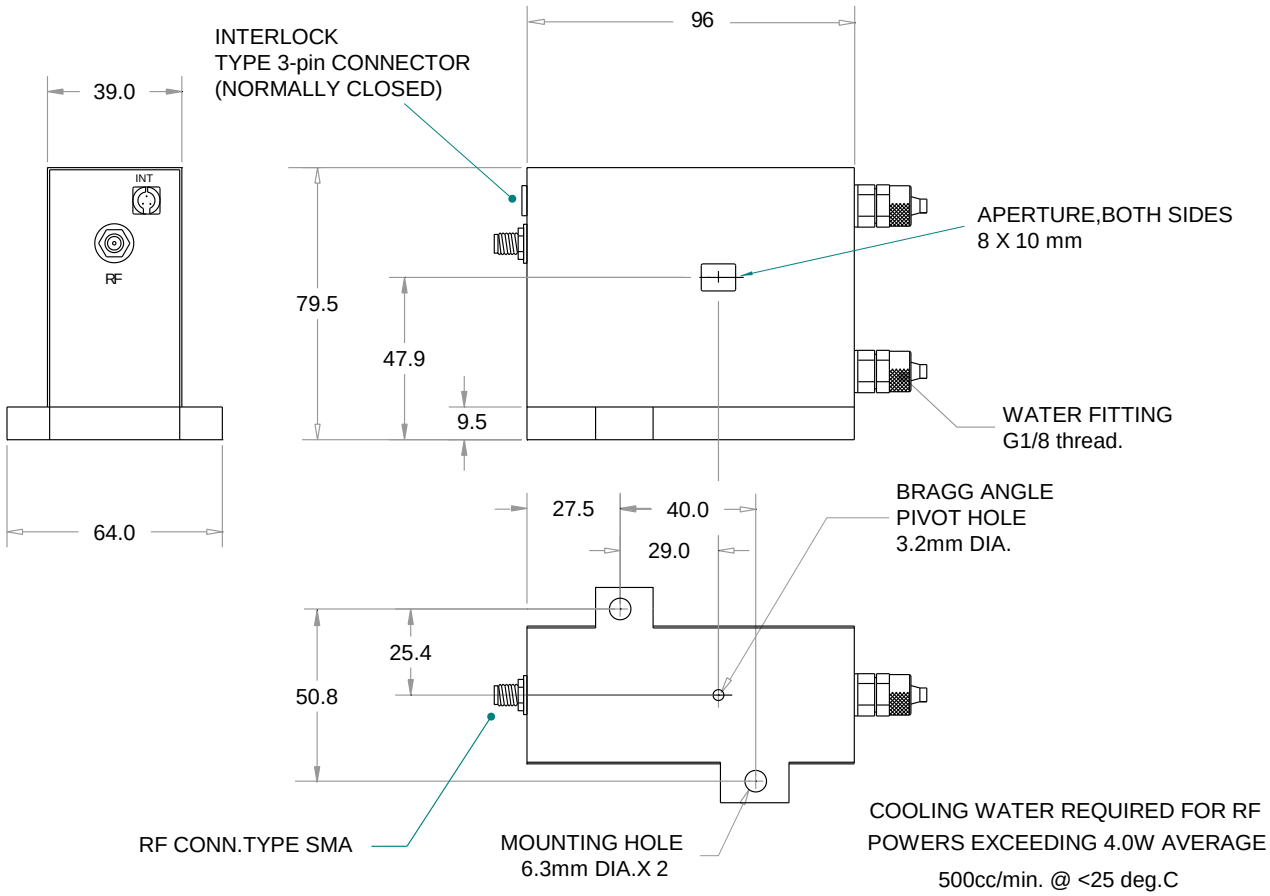
OUTLINE DRAWING

Dimensions mm



Cooling water required for RF powers exceeding 3W average.
An internal isolated thermal interlock switch opens at 35°C

Water cooled case parts are Aluminium.
It is recommended that a corrosion inhibitor is added to the cooling system.

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