

# M1211-aQ110-5-(A/R)



## UV Acousto-Optic Modulator/Deflector

1114

### SPECIFICATIONS

A/R Operating Wavelength:	330-360nm
Centre Frequency (fc):	110MHz
RF Bandwidth:	20MHz
Diffraction Efficiency:	>85% (90% typical)
Input Impedance:	50Ω(Nominal)
Input VSWR:	<1.5:1 @ 110MHz
Active Aperture:	5mm (Nominal)
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):	500ml/minute @ < 25 °C
Outline Dimensions:	(See reverse side)

### PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	355
RF Drive Power (Watts):	9.0
Bragg Angle (mrad):	3.4
Separation Angle (mrad)	6.8

### PERFORMANCE vs. BEAM DIAMETER

Beam Diameter (mm):	5.0	2.0	1.0
Rise time (nsec):	570	227	113
Video Bandwidth (MHz):	0.7	1.5	3

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

### RF Drive Electronics

RFA2110 (water cooled) or RFA910-110 (air cooled)

#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

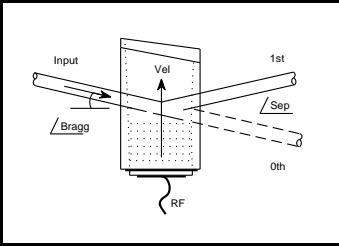
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

Tel: (703) 321 8301 Fax: (703) 321 8546

E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

#### Quality Assured.

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



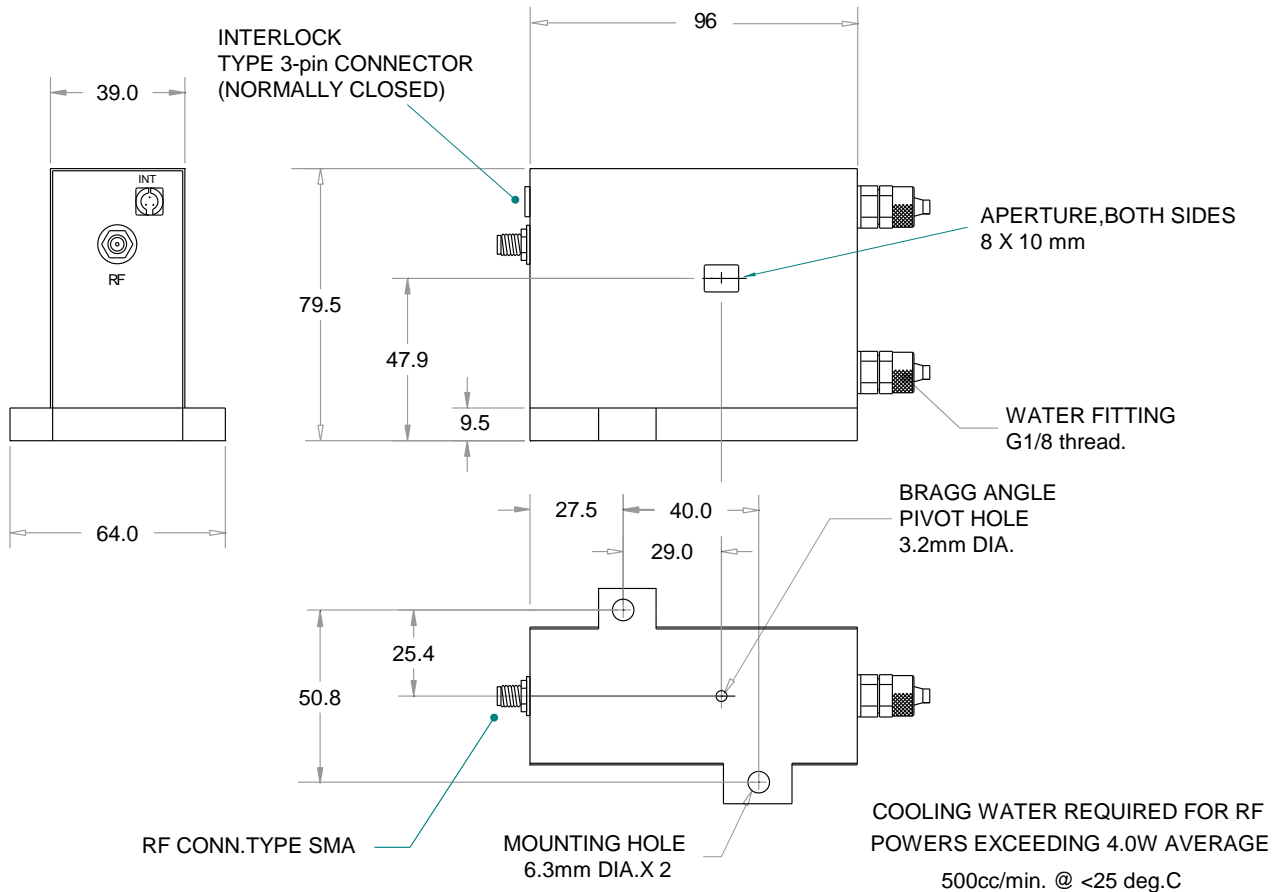
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### OUTLINE DRAWING Dimensions mm



Cooling water required for RF powers exceeding 4W 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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