

1211

Acousto-Optic Modulator

For use with High Power Argon-Ion Lasers



1106

SPECIFICATIONS

Operating Wavelength:	488-515nm (Single or Multi-line)
Centre Frequency:	110MHz
RF Bandwidth:	20MHz
Diffraction Efficiency:	>90%
Input Impedance:	50Ω(Nominal)
Input VSWR:	<1.5:1 @ 110MHz
Active Aperture:	2mm (Nominal)
Optical Insertion Loss:	<3%
Reflectivity:	<0.5%/Surface
DC Contrast Ratio:	>1000:1 min (2000:1 typical)
Laser Polarization:	Vertical, Perpendicular to Base
Water Cooling (Min):	250ml/minute @ 25 degrees C
Outline Dimensions:	(See reverse side)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	488	515
RF Drive Power (Watts):	8	9
Bragg Angle (mrad):	4.7	4.9
Separation Angle (mrad)	9.4	9.9

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

*The performance of the Model 1211 was evaluated using a 20W Argon-ion laser with various input beam diameters and optical power levels. These tests were conducted continuously over a period of several months. Throughout, the Model 1211 performed exceptionally well, particularly in terms of beam pointing stability and low wavefront distortion. The state-of-the-art diffraction efficiency and optical power handling capability of the Model 1211 makes it suitable for a variety of uses, including variable pulse width on-off gating and dynamic laser amplitude control.

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.

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Quality Assured.

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



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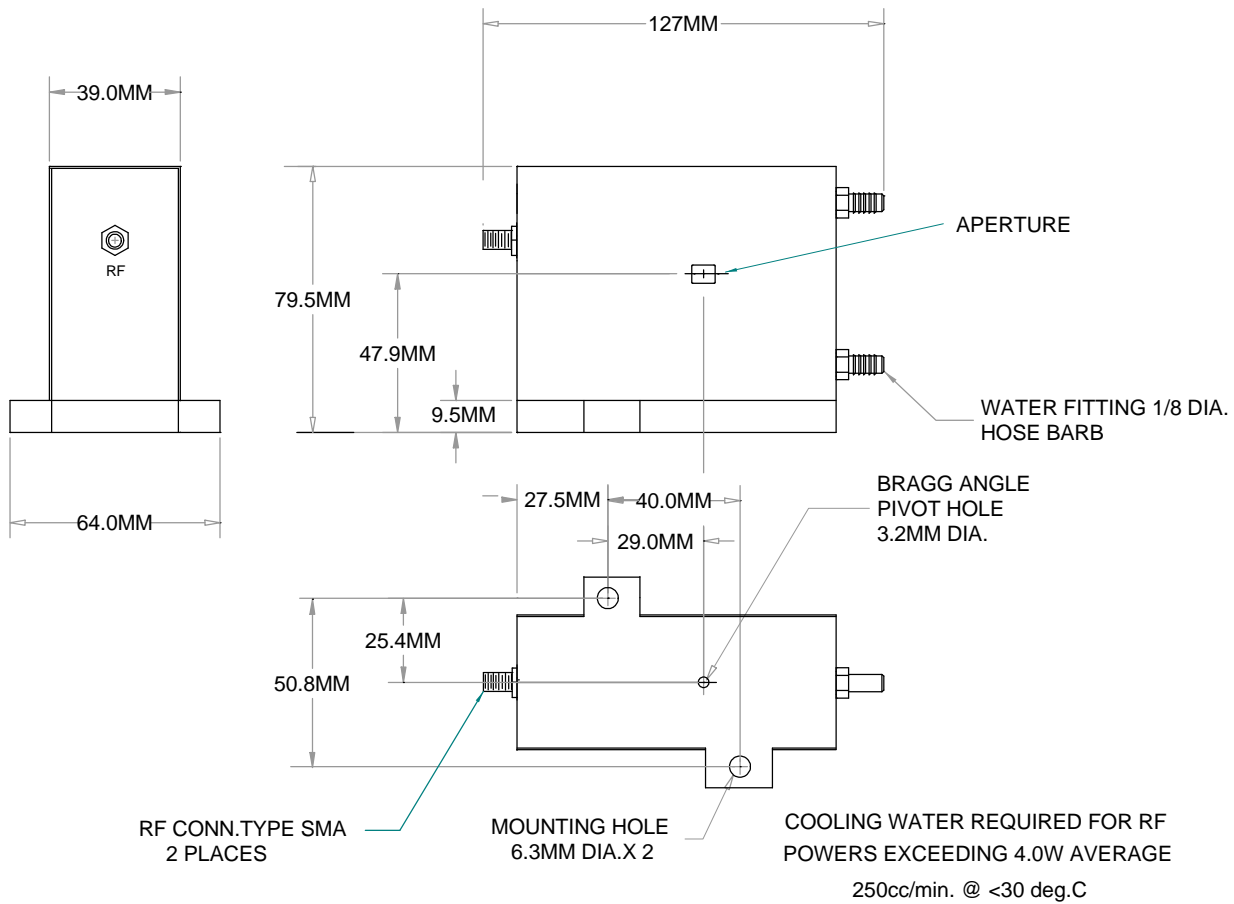
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OUTLINE DRAWING



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