

M1346-aQ60-3

Acousto-Optic Modulator (PRELIMINARY DATA)



0915

Robust AO Modulator designed for High Power NIR Fibre and DPSS laser applications.

SPECIFICATIONS

Spectral Range:	NIR
A/ R wavelength:	1.0-1.1um (others on request)
Interaction Medium:	Quartz
Acoustic Velocity:	5.7mm/ μ s
Centre Frequency (fc):	60MHz
RF Bandwidth (Δ f):	20MHz
Input Impedance:	50 Ω
Input VSWR:	< 1.5:1 at 60MHz
Clear Aperture:	9 mmH x 14 mmL
Active Aperture:	3 mmH x 14 mmL
Optical Insertion Loss:	< 3%
Reflectivity:	< 0.5%/Surface
Laser Polarization:	Vertically Polarized
Water Cooling (minimum):	1litre/minute at < 20°C
Outline Dimensions:	(See reverse)

TYPICAL PERFORMANCE at 1064 nm

Optical Power (CW):	400 Watts
Input beam diameter :	1.6mm 3mm
Optical access time :	0.18us 0.34us
Diffraction Efficiency:	> 85% * > 85% *
RF Power:	40 Watts nominal
Bragg Angle:	5.6 mrad
Separation Angle at fc:	11.2 mrad

* Single mode input

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

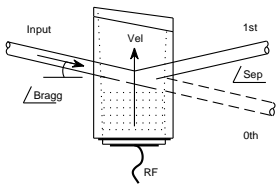
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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Quality Assured.

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



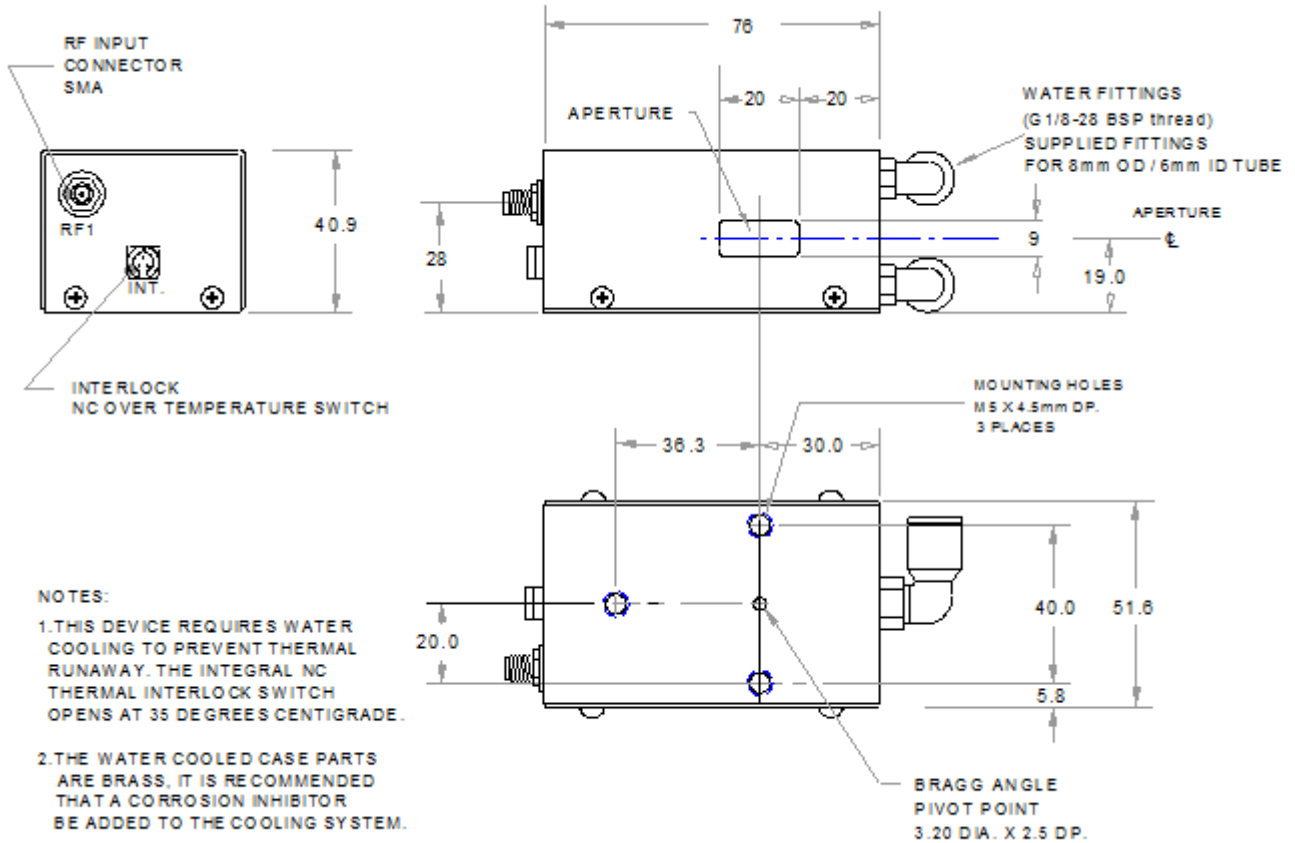
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OUTLINE DRAWING



Recommended Driver

Modulator Driver/Amplifier

RFA261

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