

# M1133U-aQ110L-H



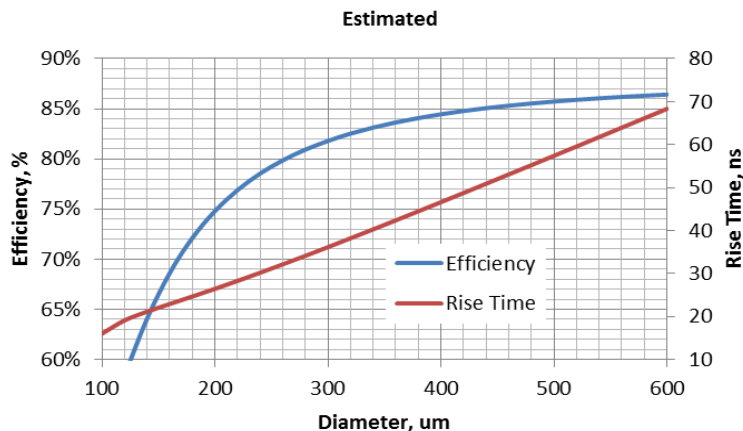
## High Power AO Modulator

0609

The M1133U-aQ110L series are longitudinal mode, conduction cooled acousto-optic modulators designed for use with polarized DPSS Nd:YLF and Nd:YAG SHG lasers. These devices exhibit very low insertion loss and high damage threshold. All Isomet AO devices benefit from the company's unparalleled experience in OEM manufacturing, with all key processes maintained in-house.

### Specifications

Acoustic Frequency $f_c$ :	110.0MHz
Interaction Material:	Quartz
Wavelength:	355nm
A/R Coating:	< 0.5% / surface
Active Aperture, <b>H</b> :	1.0mm (Please contact for alternative apertures).
Clear Aperture:	4.5mm
Acoustic Mode:	Longitudinal
Rise/Fall time:	114nsec / mm beam waist
Bragg Angle:	3.43 mrad
Separation Angle at $f_c$ :	6.85 mrad
Polarization:	Linear, vertical
Transmission:	> 99.5%
RF power for max DE	<u>H=1.0mm</u> < 1.2W
Cooling:	Conduction
Input Impedance:	50 Ohms
VSWR:	< 1.2:1



**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

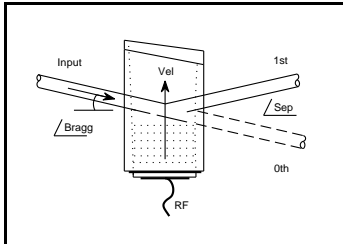
E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

**Quality Assured.**

**In-house: Crystal Growth,**

**Optical Polishing,**

**A/R coating, Vacuum Bonding**



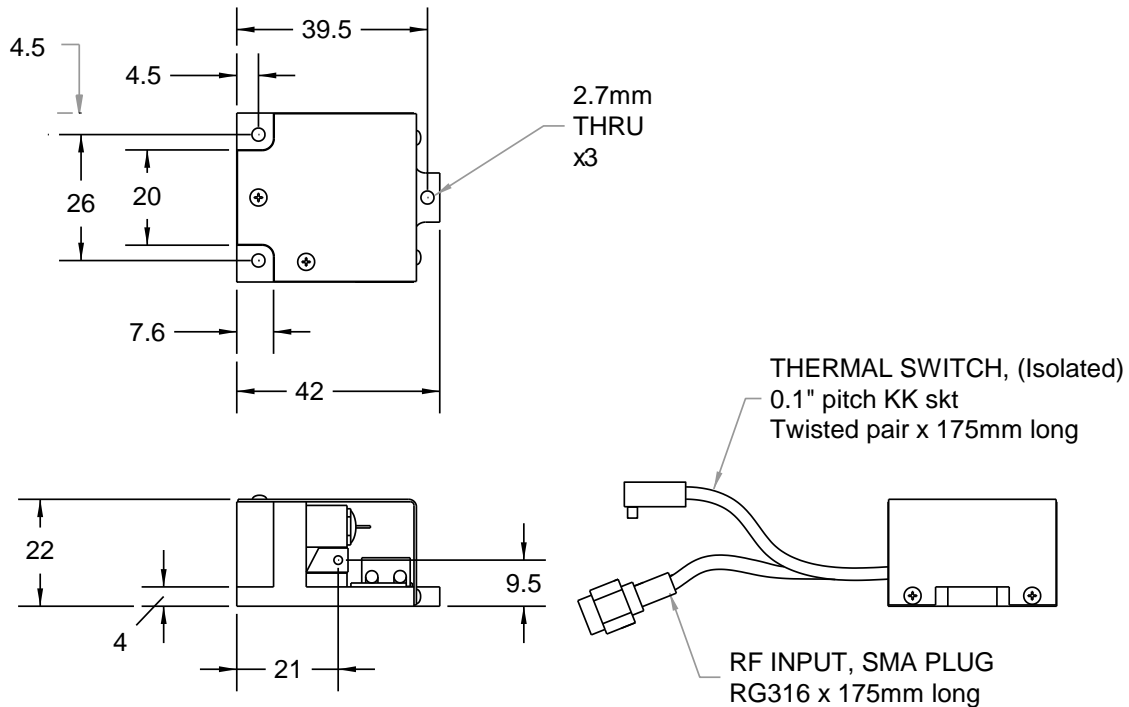
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### Outline Drawing



Dimensions: mm

Ensure adequate heaksinking through mounting surface.  
Case temperature must not exceed 50degC

### Recommended Drive Electronics

Digital Modulation: 523C-2  
Analog Modulation: 533C-2

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