

M1133-aQ80L-H High Power AO Modulator



1208

The M1133-aQ80L 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. These include optical fabrication, A/R coating and proven high power transducer bonding technology.

Specifications

Acoustic Frequency f_c :	80.0MHz
Interaction Material:	Quartz
Wavelength:	532nm
A/R Coating:	< 0.5% / surface
Active Aperture, H :	1.5mm, 2.0mm *
Clear Aperture:	4.5mm
Acoustic Mode:	Longitudinal
Rise/Fall time:	114nsec / mm beam waist
Bragg Angle:	3.73 mrad
Separation Angle at f_c :	7.47 mrad
Polarization:	Linear, vertical
Transmission:	> 99.5%
Damage Threshold:	> 500MW/cm ²
	<u>H=1.5mm</u> <u>H=2.0mm</u>
RF power for max DE	3.6W 4.8W
Diffraction Efficiency (DE):	>85% (90% typical)
Cooling:	Conduction
Input Impedance:	50 Ohms
VSWR:	< 1.2:1

* Please contact Isomet for alternative apertures.

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

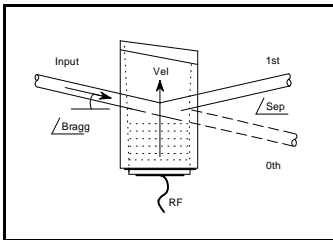
E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.

In-house: Crystal Growth,

Optical Polishing,

A/R coating, Vacuum Bonding

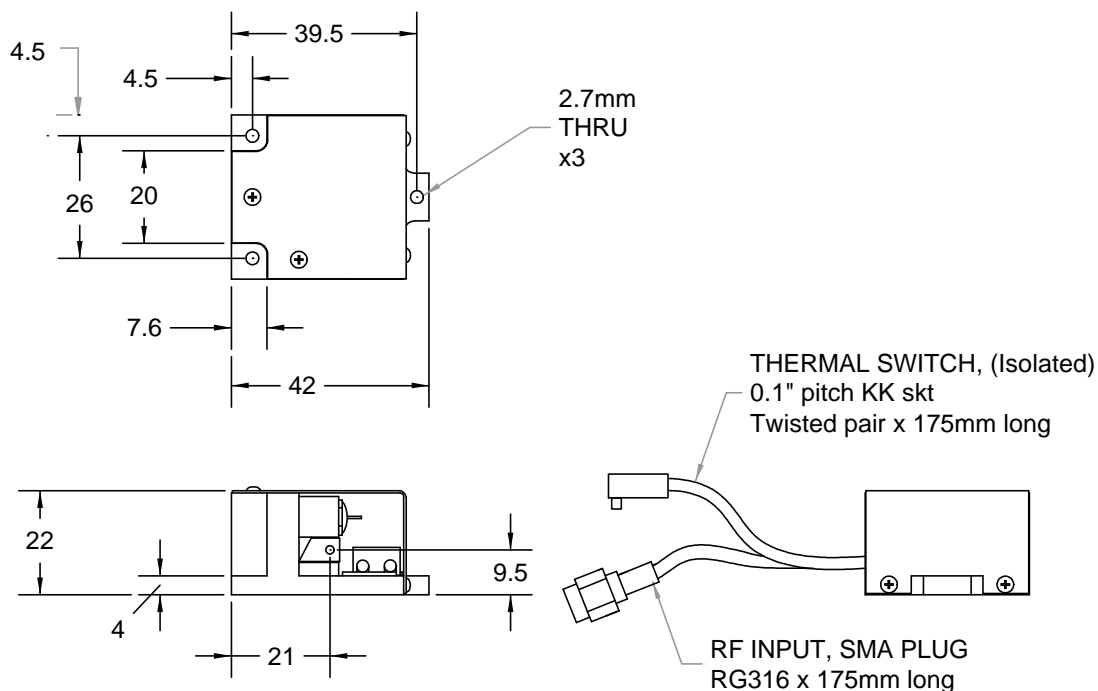


M1133-aQ80L-H High Power AO Modulator



1208

Outline Drawing



Dimensions: mm

Ensure adequate heaksinking through mounting surface, especially at higher RF powers.

Recommended Drive Electronics

Digital Modulation: 522C-4 or -7
Analog Modulation: 532C-4 or -7

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