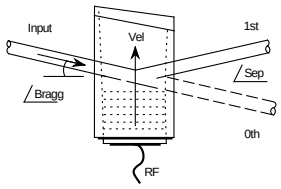


M1133-aQ80L-H

High Power AO Modulator

ISOMET

0618

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 fc:		80.0MHz
Interaction Material:		Quartz
Wavelength:		532nm
A/R Coating:		< 0.5% / surface
Active Aperture, (-H):	H=1.5	1.5mm
	H=2	2.0mm
Clear Aperture:		4.5mm
Acoustic Mode:		Longitudinal
Rise/Fall time:		114nsec / mm beam waist
Bragg Angle:		3.73 mrad
Separation Angle at fc:		7.47 mrad
Polarization:		Linear, vertical
Transmission:		> 99.5%
Damage Threshold:		> 500MW/cm^2

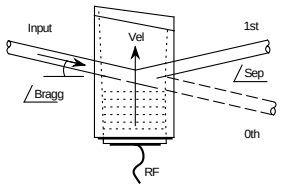
	H=1.5mm	H=2.0mm
RF power for max DE	3.6W	4.8W
Diffraction Efficiency (DE):	>85% (90% typical)	

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



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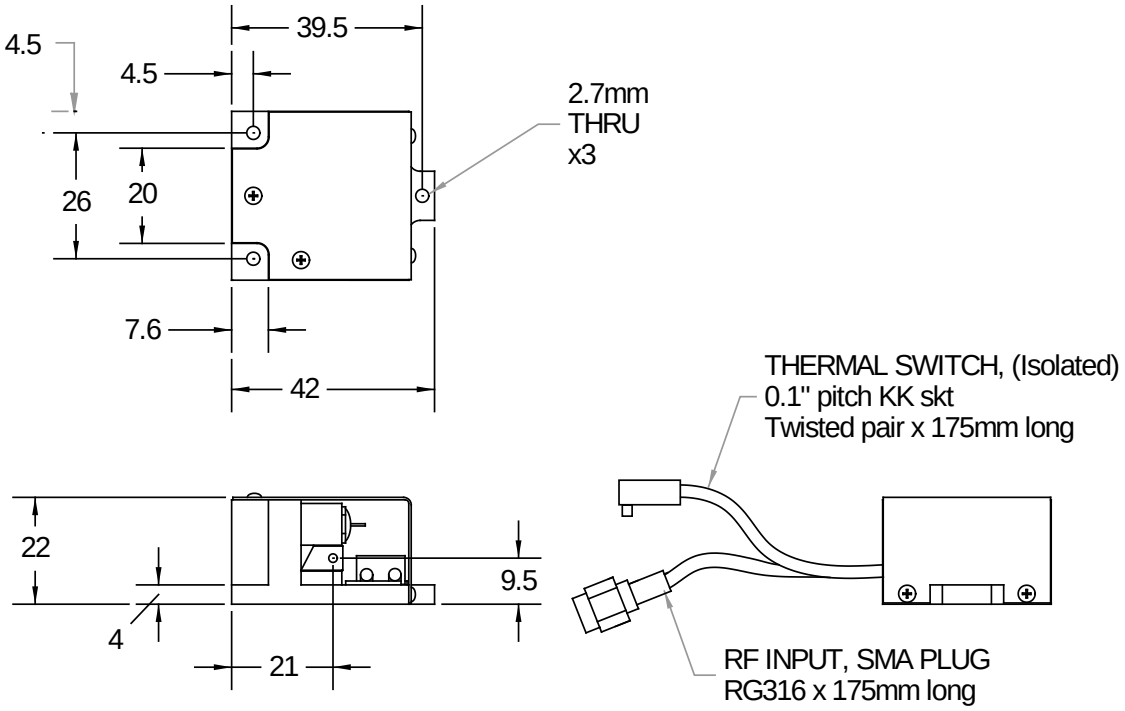
Outline Drawing



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
Dual Modulation:	752C-4 or -7

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