

M1133-aQ80L-H

High Power AO Modulator



0419

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.

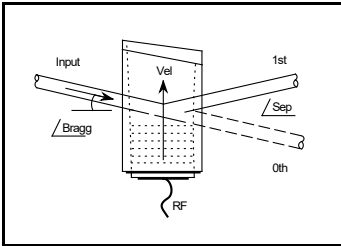
Specifications

Acoustic Frequency f_c :	80.0MHz	
Interaction Material:	Quartz	
Wavelength:	532nm	
A/R Coating:	< 0.5% / surface	
Insertion Loss:	< 3%	
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 f_c :	7.47 mrad	
Polarization:	Linear, vertical	
Damage Threshold:	> 500MW/cm ²	
RF power for max DE	<u>H=1.5mm</u> 3.6W	<u>H=2.0mm</u> 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, 10342 Battlevue, Parkway, Manassas, VA 20109, USA.
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Quality Assured.
 In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding

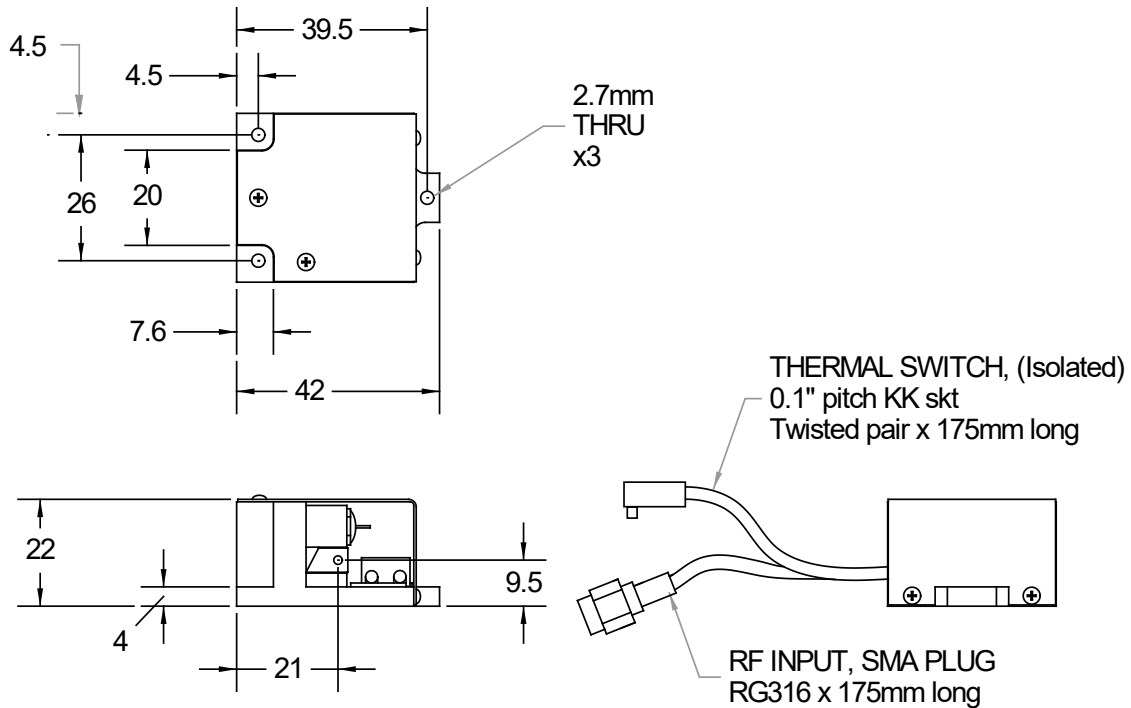


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Outline Drawing



Dimensions: mm

Ensure adequate heat sinking 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:	552F-4 or -7

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