

M1133-aQ80L-1, -2, -3

High Power AO Modulator



0621

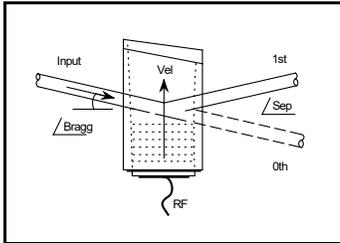
The M1133-aQ80L series are longitudinal mode, conduction cooled acousto-optic modulators designed for use with polarized DPSS Nd:YLF and Nd:YAG SHG lasers. These devices exhibit very low insertion loss and high damage threshold. All Isomet AO devices benefit from the company's unparalleled experience in OEM manufacturing, with all key processes maintained in-house.

Specifications

Acoustic Frequency fc:	80MHz		
RF Bandwidth:	20MHz		
Interaction Material:	Quartz		
Wavelength:	532nm		
A/R Coating:	< 0.5% / surface		
Active Aperture, (-H):	H=1.5	1.5mm	
	H=2	2.0mm	
	H=3	3.0mm	
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		
RF power for max DE	<u>H=1.5mm</u>	<u>H=2.0mm</u>	<u>H=3.0mm</u>
	3.6W	4.8W	7.2W
	Diffraction Efficiency (DE): >85% (90% typical)		
Cooling:	Conduction		
Input Impedance:	50 Ohms		
VSWR:	< 1.2:1		

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

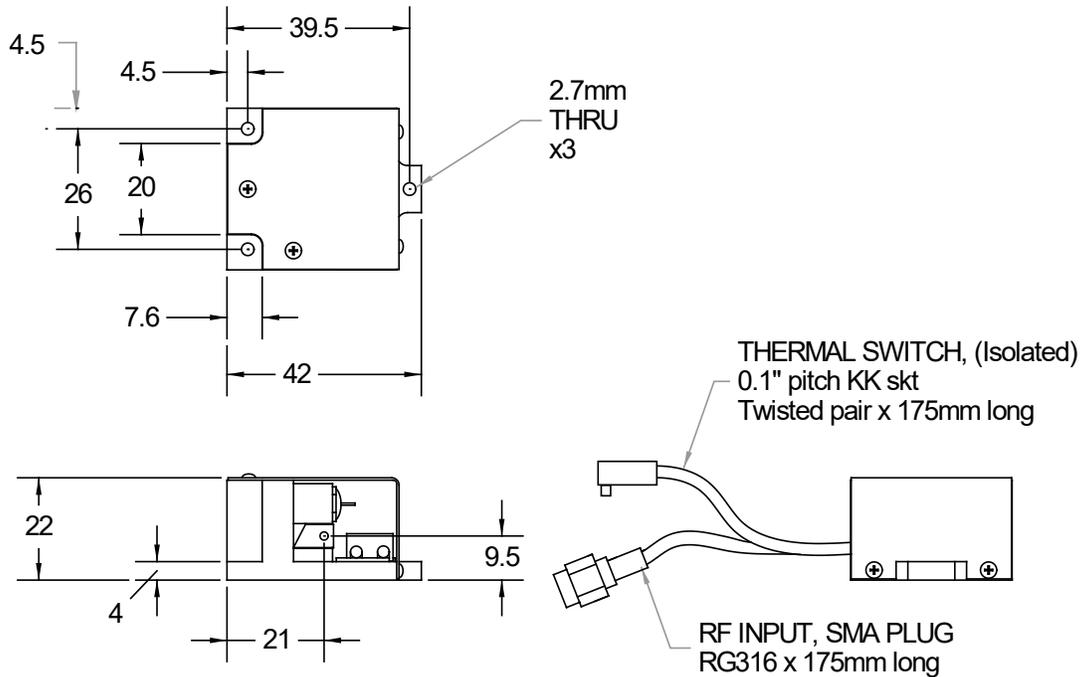


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Outline Drawing



Ensure adequate heaksinking through mounting surface, especially at higher RF powers.
Use of thermal switch is optional.

Recommended Drive Electronics

Digital Modulation:	522F-4 or -7
Analog Modulation:	532F-4 or -7
Dual Modulation:	552F-4 or -7

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