

M1133-aQ80L-1, -2, -3 High Power AO Modulator

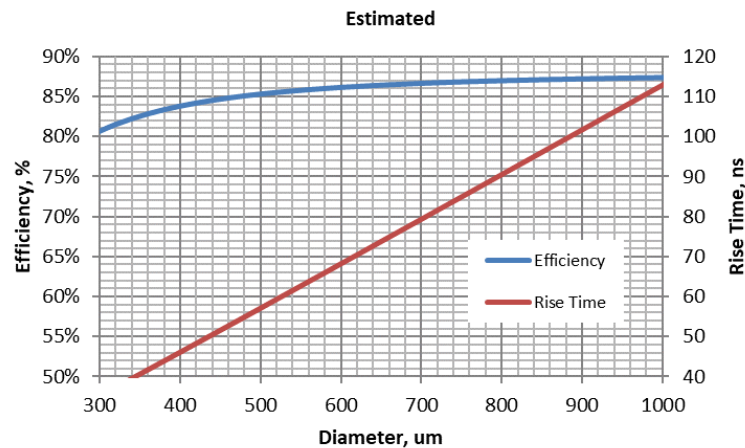


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The M1133-aQ80L series are longitudinal mode, conduction cooled acousto-optic modulators designed for use with polarized DPSS lasers. These devices exhibit very low insertion loss and high damage threshold.

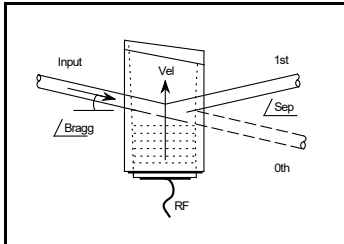
Specifications

Acoustic Frequency f_c :	80MHz		
RF Bandwidth:	20MHz		
Interaction Material:	Quartz		
Wavelength:	515nm/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		
Input Impedance:	50 Ohms		
VSWR:	< 1.2:1		
Bragg Angle:	3.73 mrad		
Separation Angle at f_c :	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)		
Rise/Fall time:	114nsec / mm beam waist		



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 ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, 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

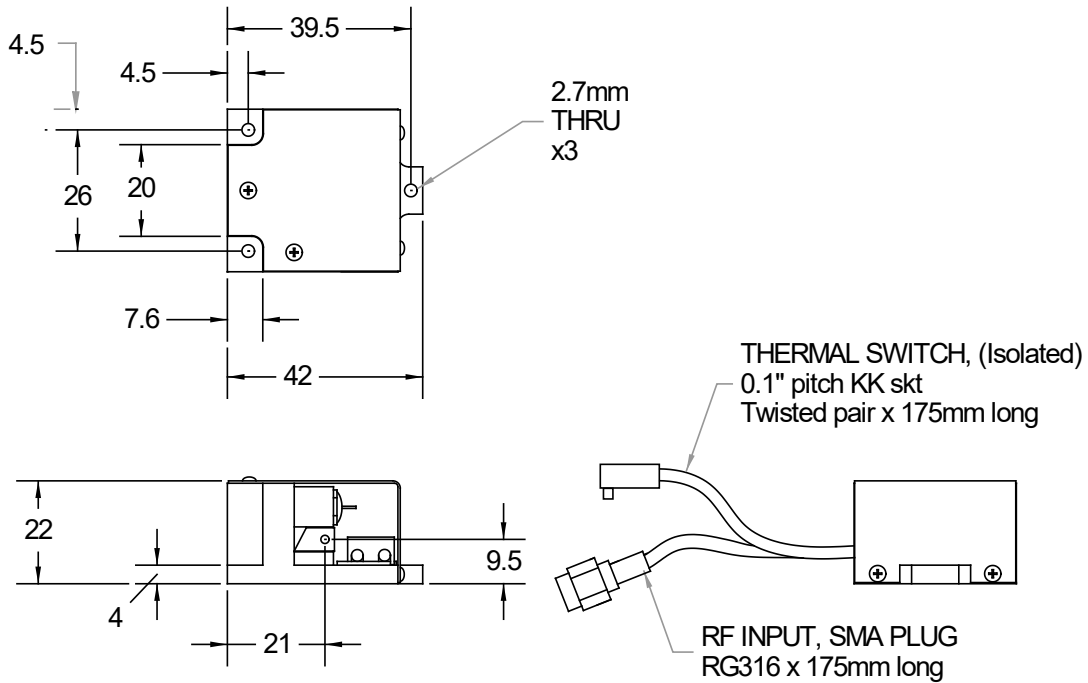


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Outline Drawing



Dimensions: mm

Conduction cooled

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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