

M1133-aQ110L-2, -3



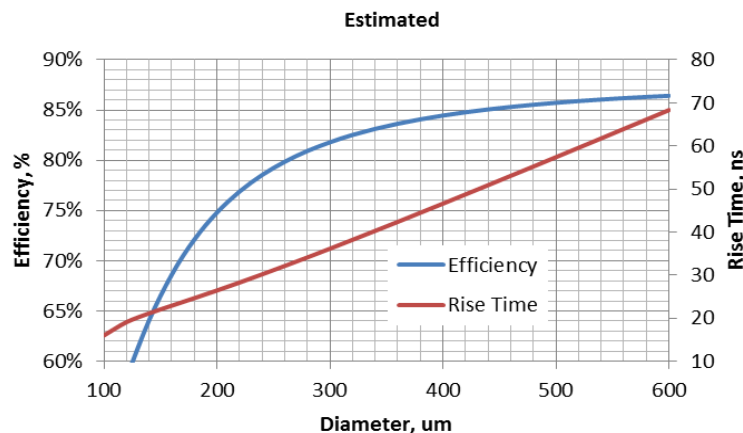
High Power AO Modulator

0425

The M1133-aQ110L 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. All Isomet AO devices benefit from the company's unparalleled experience in OEM manufacturing, with all key processes maintained in-house.

Specifications

Acoustic Frequency f_c :	110.0MHz
RF bandwidth:	> 10MHz
Interaction Material:	Quartz
Operating Wavelength, options:	355nm, 399nm, 405nm
A/R Coating:	< 0.5% / surface
Insertion Loss:	< 5%
Active Aperture, (-H):	2mm or 3mm
Clear Aperture:	4.5mm
Acoustic Mode:	Longitudinal
Rise/Fall time:	114nsec / mm beam waist
Bragg Angle:	3.43mrad at 355nm
Separation Angle at f_c :	6.85mrad at 355nm
Polarization:	Linear, vertical
Transmission:	> 99.5%
RF Drive Power at 355nm, H=2mm:	<2.1W
H=3mm:	<3.2W
Cooling:	Conduction
Input Impedance:	50 Ohms
VSWR:	< 1.2:1



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

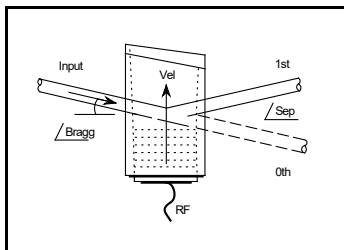
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Quality Assured.

In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding



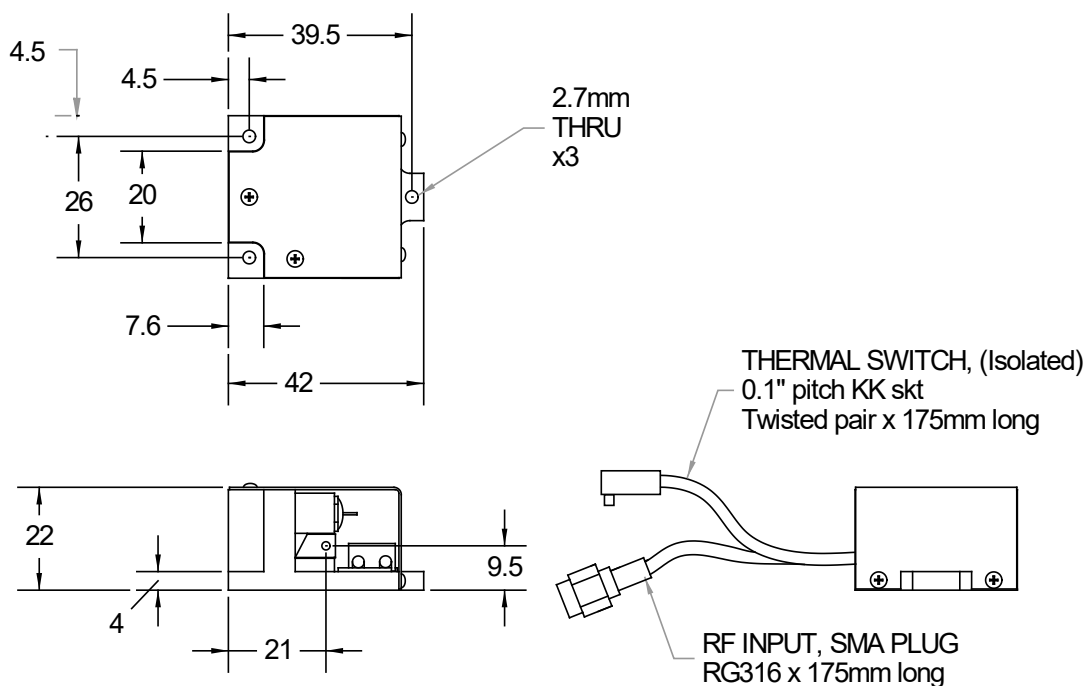
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Outline Drawing



Dimensions: mm

Ensure adequate heatsinking through the mounting surface.
Case temperature must not exceed 50degC
Use of thermal switch is optional.

Recommended Drive Electronics

Digital Modulation:	523C-2, -4 or -6
Analog Modulation:	533C-2, -4 or -6
Dual Modulation*:	553FN-2, -4 or -6

* with interlock option (N)

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