

M1377-aQ110L-H



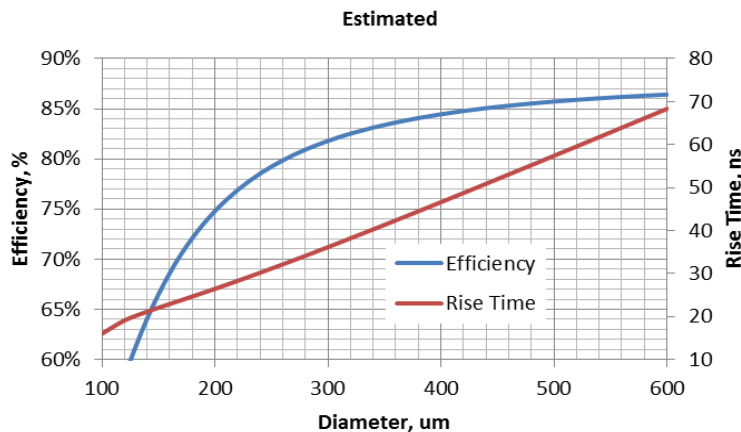
High Power AO Modulator

0419

The M1377-aQ110L 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.

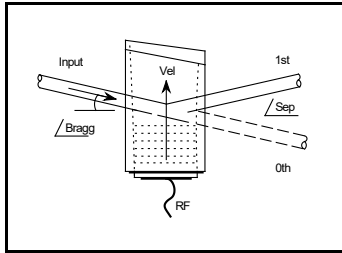
Specifications

Acoustic Frequency f_c :		110.0MHz
Interaction Material:		Quartz
Operating Wavelength:		355nm
A/R Coating:		< 0.5% / surface
Insertion Loss:		< 5%
Active Aperture,(-H):	H=1,	1mm
	H=2,	2mm
Clear Aperture:		4.5mm
Acoustic Mode:		Longitudinal
Rise/Fall time:		114nsec / mm beam waist
Bragg Angle:		3.43 mrad
Separation Angle at f_c :		6.85 mrad
Polarization:		Linear, vertical
Transmission:		> 99.5%
RF Drive Power,	H=3mm:	<1.2W
	H=5mm	<2.4W
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.
 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



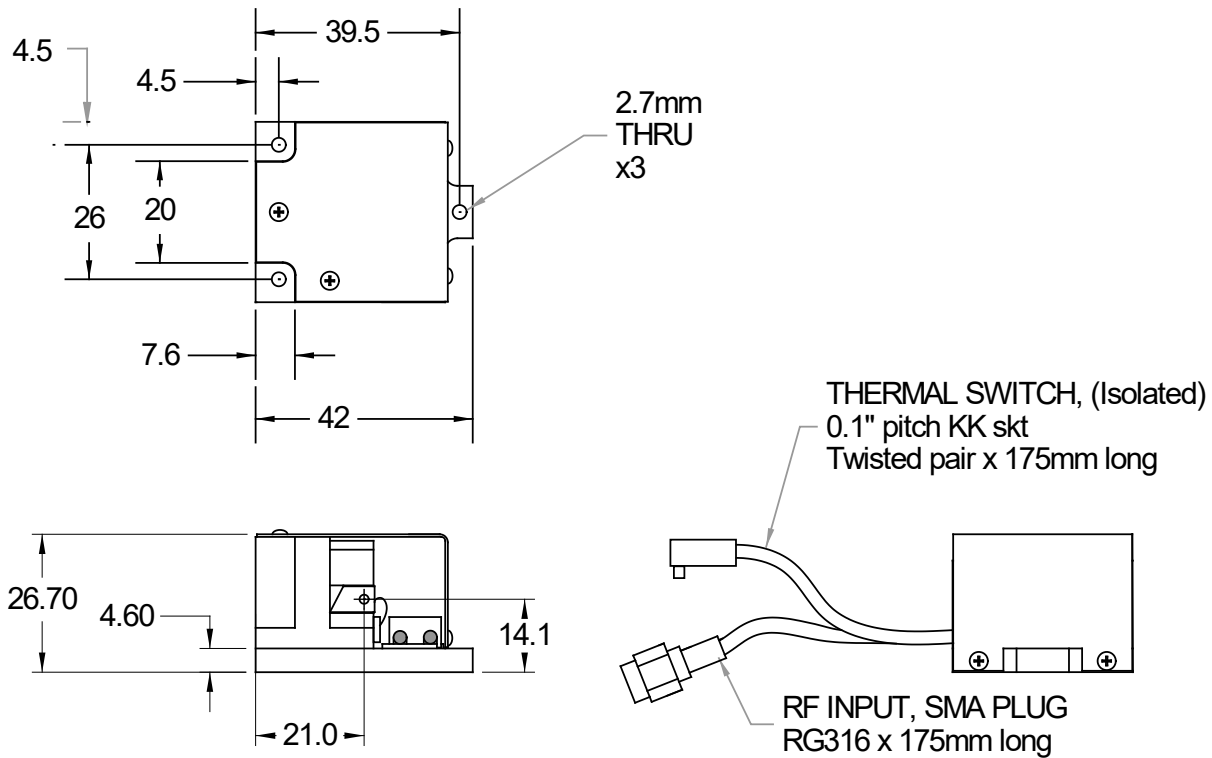
M1377-aQ110L-H

High Power AO Modulator



0419

Outline Drawing



Dimensions: mm

Ensure adequate heaksinking through mounting surface.
Case temperature must not exceed 50degC

Recommended Drive Electronics

Digital Modulation:	523C-2
Analog Modulation:	533C-2
Dual Modulation:	553F-2

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 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