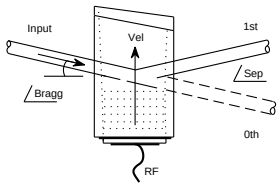

Q1133-aQxxL-H
AO Q-SWITCH

ISOMET

0115

The Q1133-aQxxL series are longitudinal (compressional) mode, conduction cooled acousto-optic Q-switches designed for use with polarized DPSS Nd:YLF and Nd:YAG lasers. These devices exhibit very low insertion loss and high damage threshold. All Isomet AO Q-switches 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:	40.68, 68 or 80.0MHz
Interaction Material:	Quartz
Wavelength:	1047nm to 1064nm
A/R Coating:	< 0.3% / surface
Active Aperture, H:	1.0, 1.5, 2.0 mm *
Clear Aperture:	4.5mm
Acoustic Mode:	Longitudinal
Rise/Fall time:	114nsec / mm beam waist
Polarization:	Linear
Transmission:	> 99.5% (single pass)
Cavity Insertion Loss:	10% max, <5% typical
Damage Threshold:	> 500MW/cm^2
RF power	Up to 10W (aperture dependent)

	H=1.0mm	H=1.5mm	H=2.0mm
RF power	6W	9W	10W
Diffraction Efficiency:	>85%	>80%	>75%

Cooling:	Conduction
Input Impedance:	50 Ohms
VSWR:	< 1.2:1

Model Selection:

		Freq		**Active Aperture**	
Q1133 -	aQ	**xx**	L -	**H**	
40.68MHz		**40**		**1.0**	1.0mm
68.0MHz		**68**		**1.5**	1.5mm
80.0MHz		**80**		**2.0**	2.0mm

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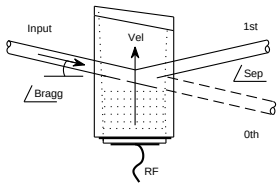
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
E-mail: ISOMET@ ISOMET.COM ***Web Page: WWW.ISOMET.COM***

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



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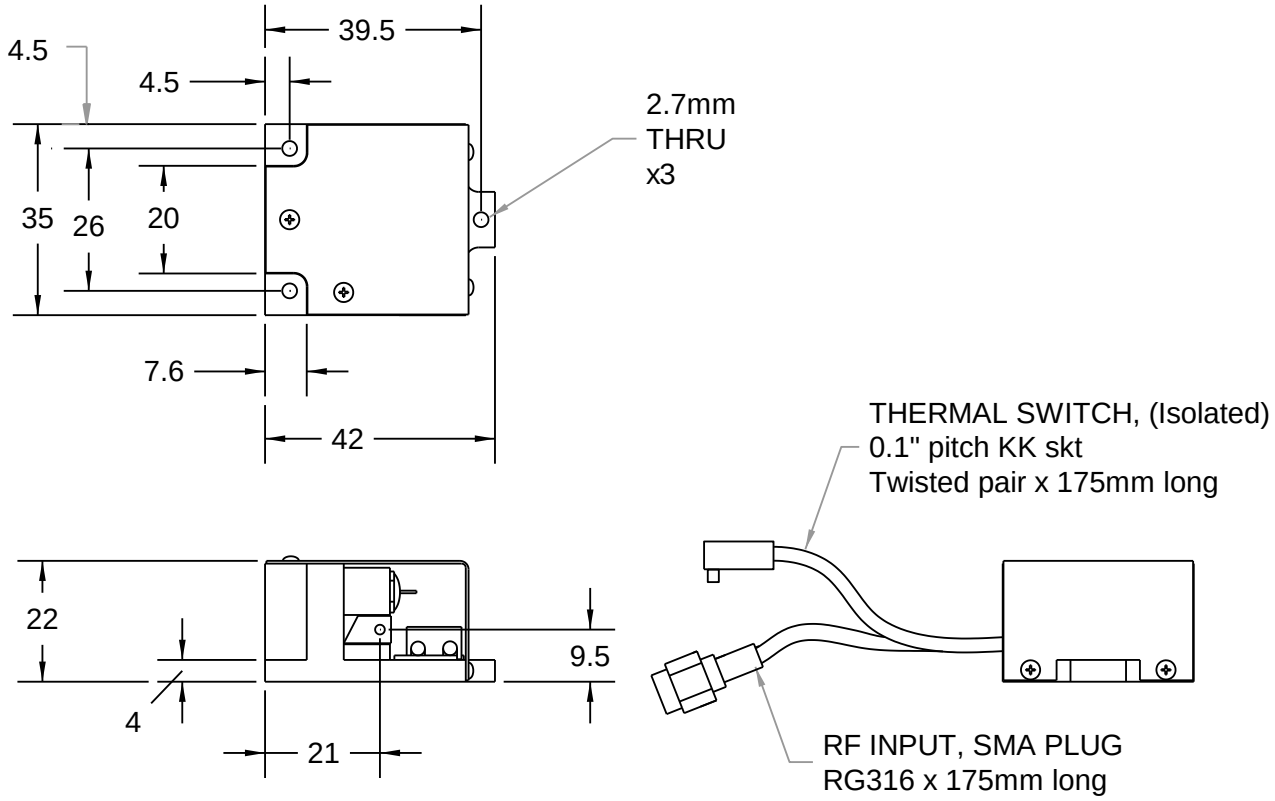
Outline Drawing



Dimensions: mm

Ensure adequate heaksinking through mounting surface, especially at higher RF powers.

Recommended Drive Electronics

RF Driver with Modulation Control	AQS1010-FC-x

* Please contact Isomet for alternative apertures.

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