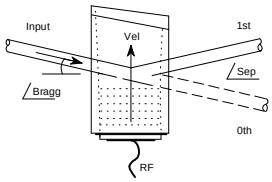


Q1058C-SFxxL-H

AO Q-SWITCH

(PRELIMINARY DATA)

ISOMET

1106

The Q1058C-SFxxL series are conduction cooled, high efficiency acousto-optic Q-switches designed for use with polarized DPSS Nd:YLF and Nd:YAG lasers. These devices exhibit 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.

Preliminary Specifications

Acoustic Frequency:	24.00 or 27.12MHz
Interaction Material:	Dense Flint
Wavelength:	1047nm to 1064nm
A/R Coating:	< 0.5% / surface
Active Aperture, H:	1.0, 1.5 mm *
Clear Aperture:	3mm
Acoustic Mode:	Longitudinal (compressional)
Rise/Fall time:	190nsec / mm beam waist
Polarization:	Linear
Transmission:	> 99.5% (single pass)
Cavity Insertion Loss:	10% max, <5% typical
Damage Threshold:	> 300MW/cm^2
RF power	Up to 5W

Diffraction Efficiency:	H=1mm	H=1.5mm
RF = 3W	>70%	>60%
RF = 4W	>80%	>75%
RF = 5W	>85%	>80%

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

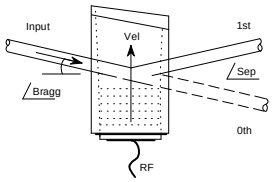
Model Selection:

		Freq		Active Aperture	
Q1058C -	SF	**xx**	L -	**H**	
24.0MHz		**24**		**1.0**	1.0mm
27.12MHz		**27**		**1.5**	1.5mm

* Please contact Isomet for alternative apertures.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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



Q1058C-SFxxL-H

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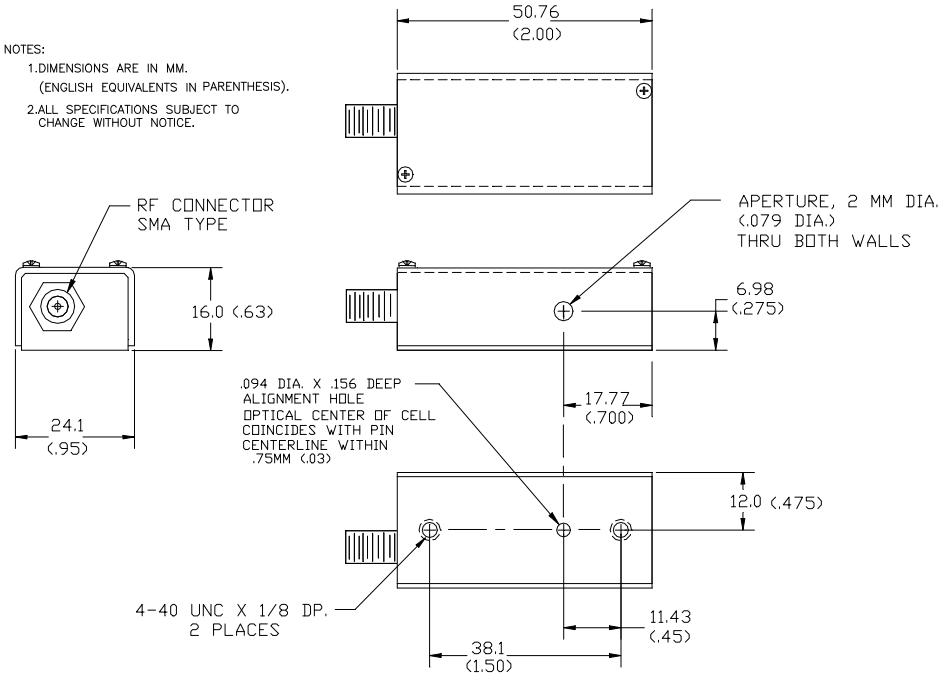
Outline Drawing



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

Recommended Drive Electronics

RF Driver with Waveform Generation	AQS1010-FC-x
RF Driver with Basic Modulation control	531C-6-27

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