

Q1080-TxxL-H AO Q-SWITCH



1106

The Q1080-TxxL series are TeO₂, conduction cooled high efficiency acousto-optic Q-switches designed for use with short cavity polarized DPSS Nd:YLF and Nd:YAG lasers.

Specifications

Acoustic Frequency:	40.68, 68 or 80.0MHz
Interaction Material:	Tellurium Dioxide
Wavelength:	1047nm to 1064nm
A/R Coating:	< 0.5% / surface
Active Aperture, H:	1.5mm *
Clear Aperture:	3.0mm
Acoustic Mode:	Longitudinal
Rise/Fall time:	155nsec / mm beam waist
Polarization:	Insensitive
Transmission:	> 99.0% (single pass)
Cavity Insertion Loss:	10% max, <5% typical
Damage Threshold:	> 250MW/cm ²
RF power	Up to 4W (max)
RF power	<u>H=1.5mm</u> 2.7W
Diffraction Efficiency:	>85%
Cooling:	Conduction
Input Impedance:	50 Ohms
VSWR:	< 1.2:1
Model Selection:	

	<u>Freq</u>		<u>Active Aperture</u>	
Q1080 - T	xx	L -	H	
40.68MHz	40			
68.0MHz	68		1.5	1.5mm
80.0MHz	80			

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

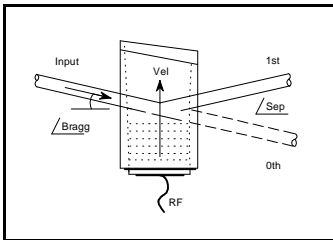
E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.

In-house: Crystal Growth,

Optical Polishing,

A/R coating, Vacuum Bonding

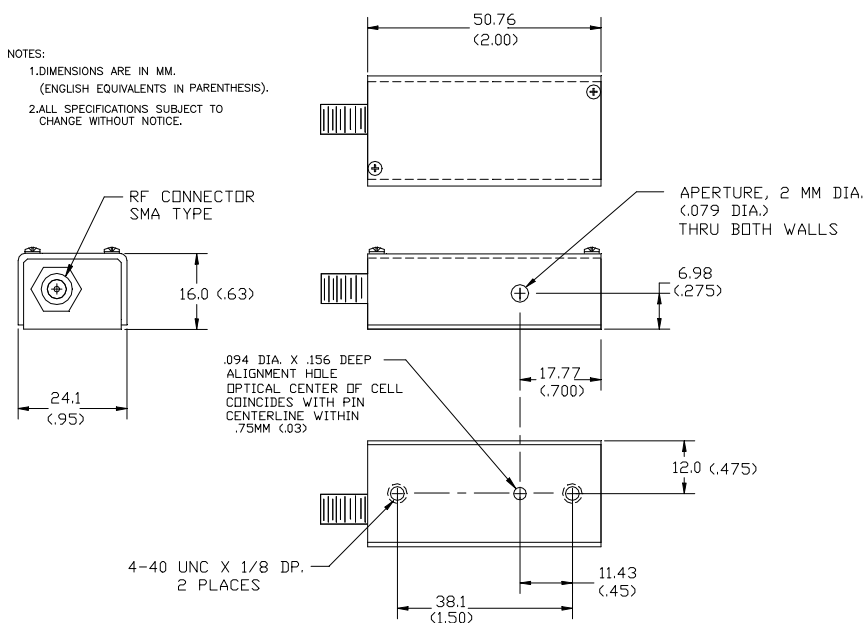


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Outline Drawing



Dimensions: mm

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

Recommended Drive Electronics

RF Driver with Waveform Generation
RF Driver with Basic Modulation control

AQS1004-FC-x
531C-4-x / 532C-4-x

* Please contact Isomet for alternative apertures.

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