

Q1420-T80L-1 (NIR) AO Modulator / Q-Switch



4920

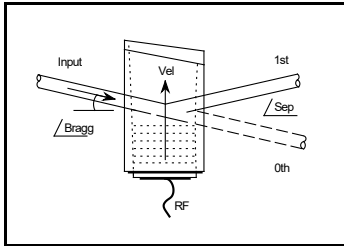
The Q1420-T80L series are longitudinal mode, conduction cooled acousto-optic modulators/Q-switches designed for use with DPSS or Fibre lasers. These devices exhibit very low insertion loss and moderate damage threshold.

Specifications

Acoustic Frequency f_c :	80.0MHz
RF bandwidth:	10.0MHz
Interaction Material:	TeO ₂
Acoustic Mode:	Longitudinal
A/R Coating options:	1064nm
Reflectivity:	< 0.2% / surface
Active Aperture:	1.0mm
Clear Aperture:	2.0mm
Rise/Fall time:	155nsec / mm beam waist (Gaussian)
Maximum average (or CW) RF power:	3W.
Polarization:	Any
Transmission:	> 99.5%
Damage Threshold:	> 0.6J/cm ² (10psec)
<u>Performance at:</u>	<u>1064nm</u>
Bragg Angle :	10.3 mrad
Separation Angle:	20.2 mrad
<u>RF power</u>	<u>2W</u> <u>3W</u>
Loss Efficiency	78% 85%
Cooling:	Conduction
Input Impedance:	50 Ohms
VSWR:	< 1.2:1

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.
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Quality Assured.
In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding

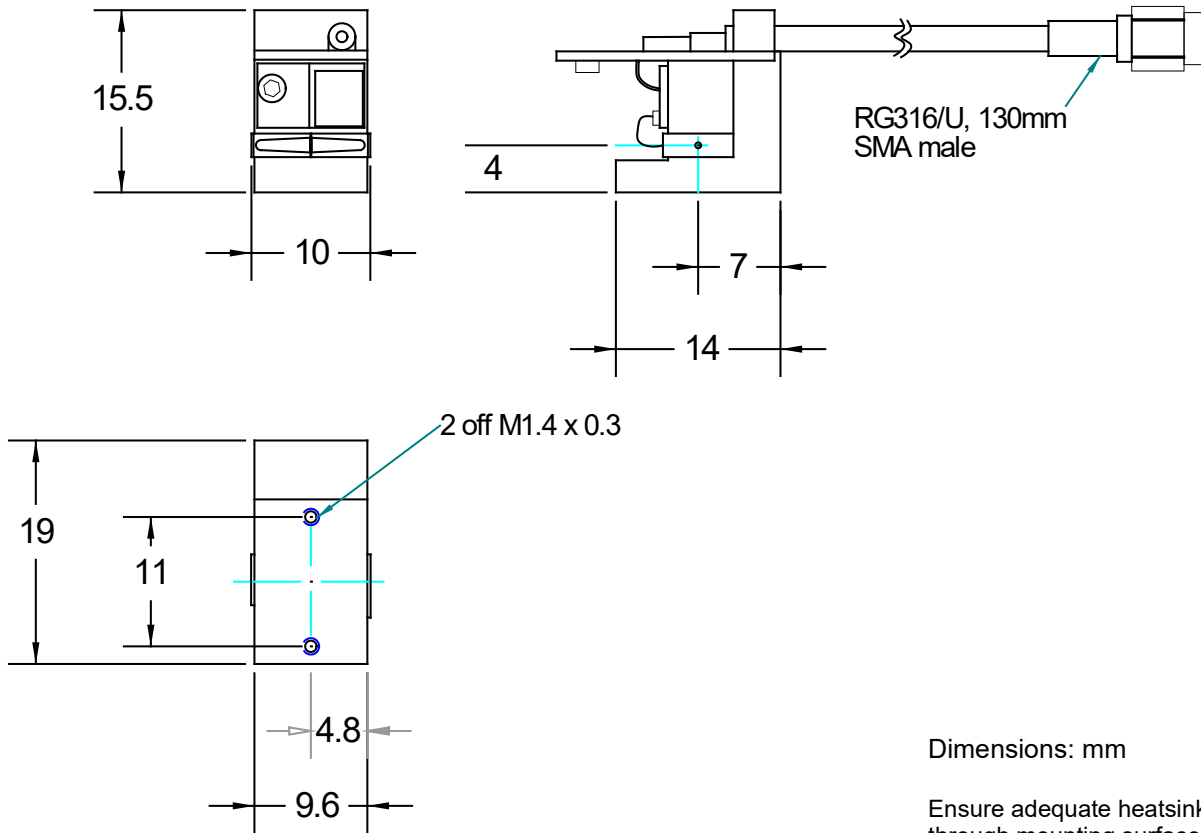


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Outline Drawing



Dimensions: mm

Ensure adequate heatsinking through mounting surface.

Must not exceed 40degC

Recommended Drive Electronics

Dual Modulation: 552F-4

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