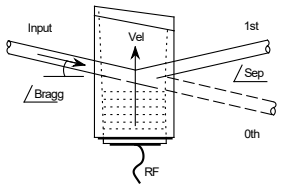


M1377-aQ80L-1 (1.5um)

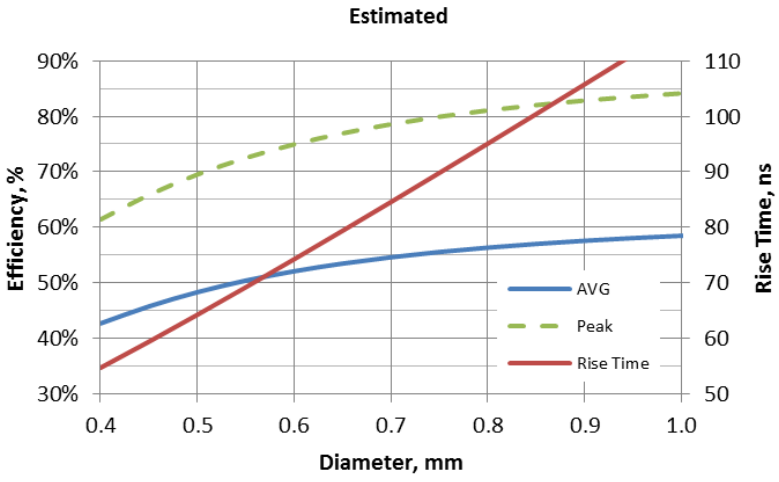
High Power AO Modulator

1026

The M1377-aQ80L series are longitudinal mode, conduction cooled acousto-optic modulators designed for use with polarized pulsed 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

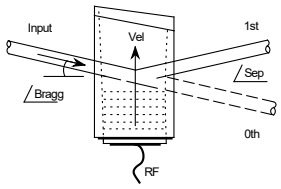
Acoustic Frequency fc:	80.0MHz
Interaction Material:	Quartz
Wavelength:	1550nm
A/R Coating:	< 0.25% / surface
Active Aperture, **H** :	1.0mm (Please contact for alternative apertures).
Clear Aperture:	4.5mm
Acoustic Mode:	Longitudinal
Rise/Fall time:	114nsec / mm beam waist
Bragg Angle:	10.88 mrad
Separation Angle at fc:	21.75 mrad
Polarization:	Linear, vertical
Transmission:	> 99.5%
	H=1.0mm
Peak RF power for max DE	26W
Maximum CW or average RF power	10W*
Cooling:	Conduction
Input Impedance:	50 Ohms
VSWR:	< 1.2:1



* For pulsed applications, peak efficiency >85% (90% typical) provided the RF drive power is duty cycled.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 10342 Battleview 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-aQ80L-1 (1.5um)

High Power AO Modulator

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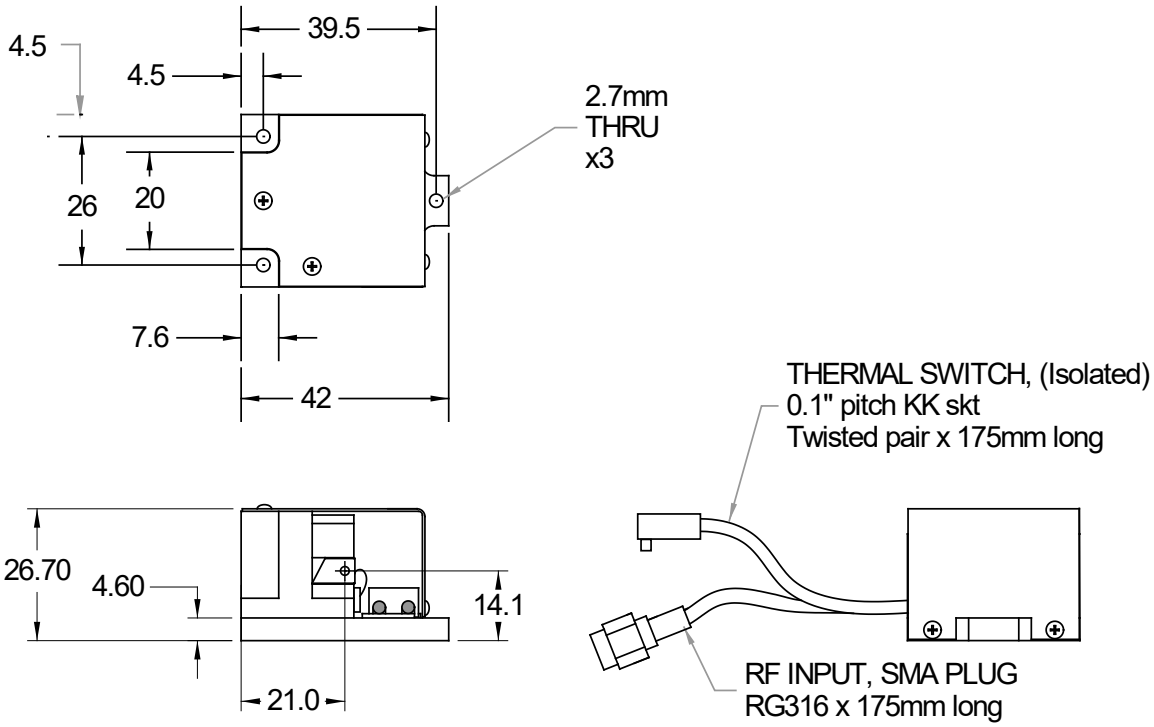
Outline Drawing



Ensure adequate heatsinking through mounting surface
Must not exceed 40degC
Optional Thermal Interlock switch shown. Opens at 50degC. No connection required with 552F- drivers.

Recommended Drive Electronics

Dual Modulation, 7W:	552F-7
Dual Modulation, 25W:	RFJ080-1-25*

* For pulsed, duty cycled applications, where peak RF power exceeds CW rating of AO device.

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