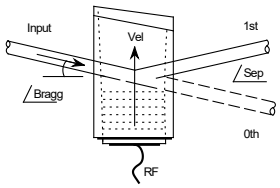


M1405-aQ80L-1 (NIR)
Acousto-Optic Modulator

ISOMET

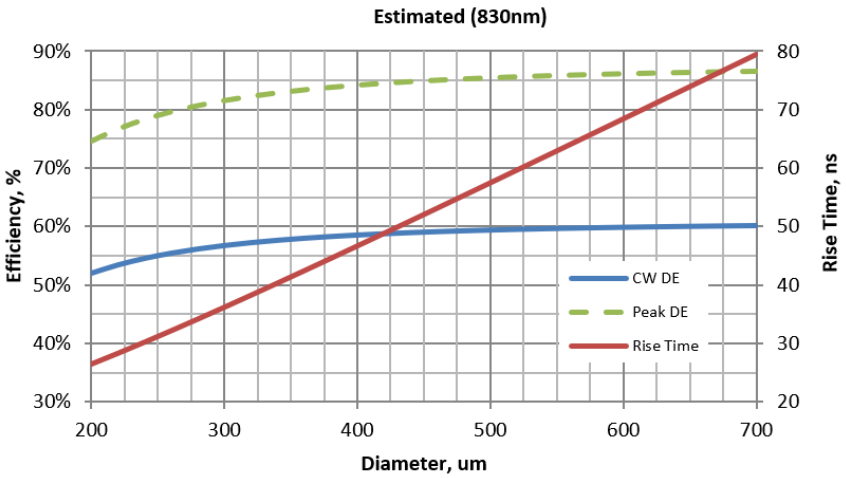
1225

SPECIFICATIONS

A/R Operating Wavelength*:	650-1000nm
Material:	Quartz
Optical path length:	20mm
Acoustic velocity:	5.7mm/usec
Center Frequency:	80MHz
RF 3dB Bandwidth:	>20MHz
Input Impedance:	50Ω
Input VSWR:	< 1.5:1 @ 80MHz
Active Aperture:	1mm
Optical Insertion Loss:	< 3%
Reflectivity:	< 0.5%/Surface
DC Contrast Ratio:	>1000:1 min (2000:1 typical)
Laser Polarization:	Vertical, Perpendicular to Base

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	**670**	**780**	**830**	**1064**
Peak RF Drive Power:	10W	14W	15W	25W
Peak Diffraction Efficiency (duty cycled):		85% min, 90% typ		
Max CW or Average RF power:		7W		
Typical CW efficiency for 6W RF drive:	75%	60%	55%	40%
Bragg Angle (mrad):	4.7	5.5	5.8	7.5
Separation Angle (mrad):	9.4	11	11.6	14.9



(* other wavelengths on request)

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ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.
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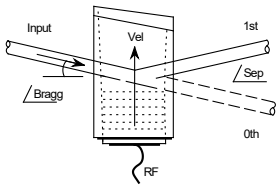
E-mail: ISOMET@ ISOMET.COM ***Web Page: WWW.ISOMET.COM***

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



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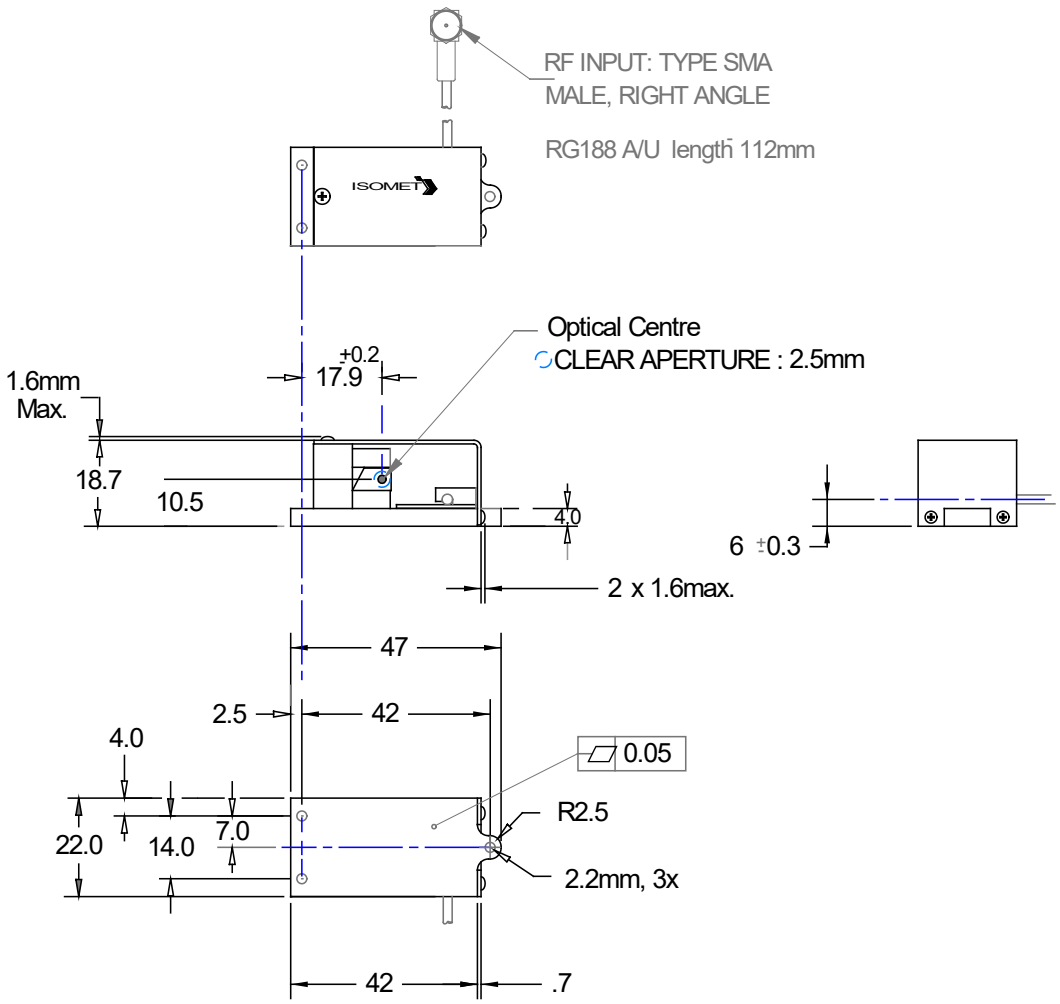
OUTLINE DRAWING



Ensure adequate heatsinking through mounting surface, especially at higher RF powers. Must not exceed 40degC

Suggested RF Drive Electronics:

Dual modulation	RFJ080-1-15

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