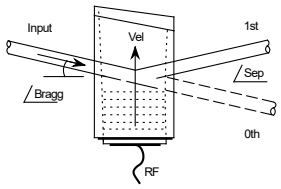


M1405-aQ80L-0.75 (NIR)

AO Modulator / Q-Switch

PRELIMINARY

0424

Specifications

Acoustic Frequency fc:	80MHz
RF bandwidth:	10.0MHz
Interaction Material:	Quartz
A/R Coating Options:	650-1000nm
Reflectivity:	< 0.5% / surface
Active Aperture:	0.75mm
Clear Aperture:	4.5mm
Acoustic Mode:	Longitudinal
Rise/Fall time:	114nsec / mm beam waist
Polarization:	Linear, vertical
Transmission:	> 99.5%
Optical path length	20mm

Performance at:	670nm	780nm	970nm
Bragg Angle (mrad):	4.7	5.5	6.8
Separation Angle (mrad):	9.4	11	13.6
Saturation RF power:	9W	12W	18W
Max' CW / average power	7W	7W	7W
Diffraction Efficiency, >0.5mm beam, 7W drive	>80%	>70%	>55%

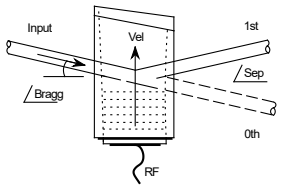
Beam Diameter:	0.25mm	0.5mm
Rise Time:	36ns	57ns

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.
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



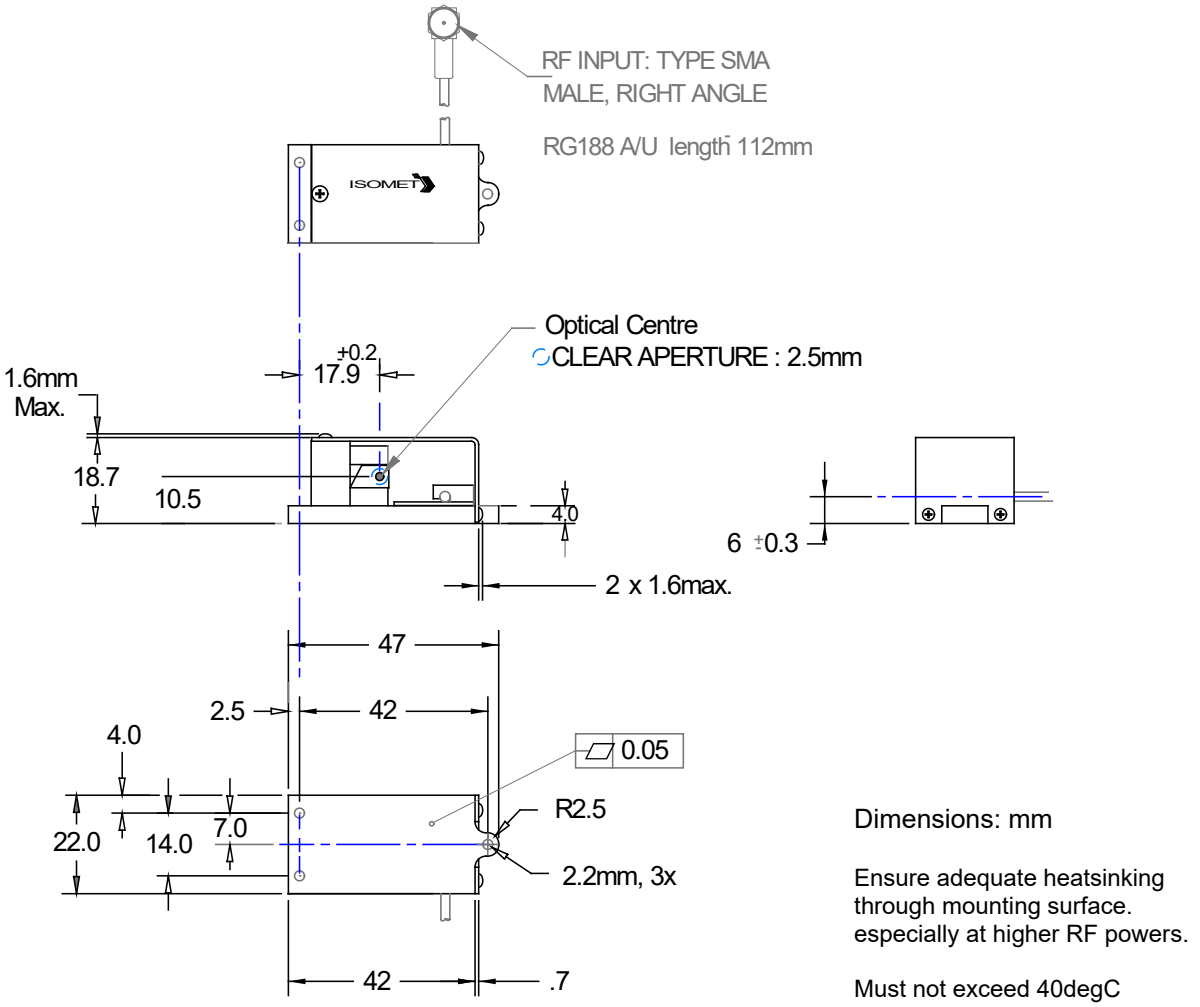
M1405-aQ80L-0.75 (NIR)

AO Modulator / Q-Switch

PRELIMINARY

0424

Outline Drawing



Dimensions: mm

Ensure adequate heatsinking through mounting surface. especially at higher RF powers.

Must not exceed 40degC

Suggested RF Drive Electronics:

Fixed frequency with modulation	522F-7, 532F-7 or 552F-7

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