

OAM1059A-T15S-1.5



OFF-AXIS FREQUENCY SHIFTER

0821

The OAM1059A-T15S is a high efficiency acousto-optic modulator optimized to provide a 15MHz frequency shift at 633nm wavelength. A linearly polarized beam input at normal incidence will produce either an upshifted +1 order or downshifted -1 order, depending on the input polarization. A horizontal input polarization produces a vertically polarized -1 order, and a vertical input polarization produces a horizontally polarized +1 order.

SPECIFICATIONS

Operating Wavelength:	632.8nm
Interaction Material:	TeO ₂ , off-axis
Active aperture:	1.5mm dia.
Center Frequency:	15MHz
RF Bandwidth:	1MHz
Input Impedance:	50 Ohms (nominal)
VSWR:	<2.5:1
Input angle:	Normal incidence
Separation angle:	0.5° from 0 th order
Laser Polarization:	Linear, horizontal or vertical
Optical Power:	<5 Watts
Static Insertion Loss:	<3%

PERFORMANCE

Diffraction Efficiency:	>85%
RF Drive Power:	<0.3 Watts

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.

Tel: (703) 321 8301 Fax: (703) 321 8546

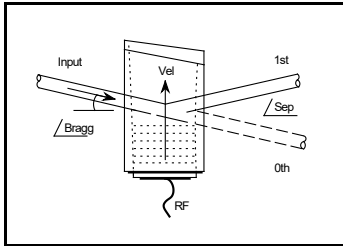
E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.

In-house: Crystal Growth,

Optical Polishing,

A/R coating, Vacuum Bonding



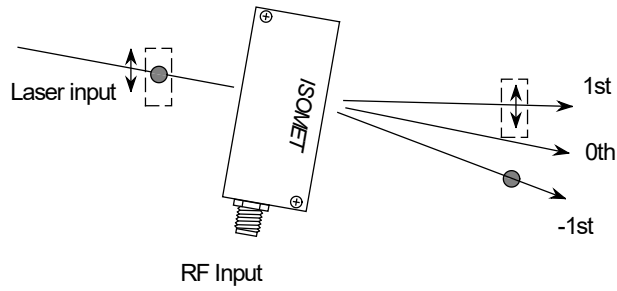
OAM1059A-T15S-1.5

OFF-AXIS FREQUENCY SHIFTER

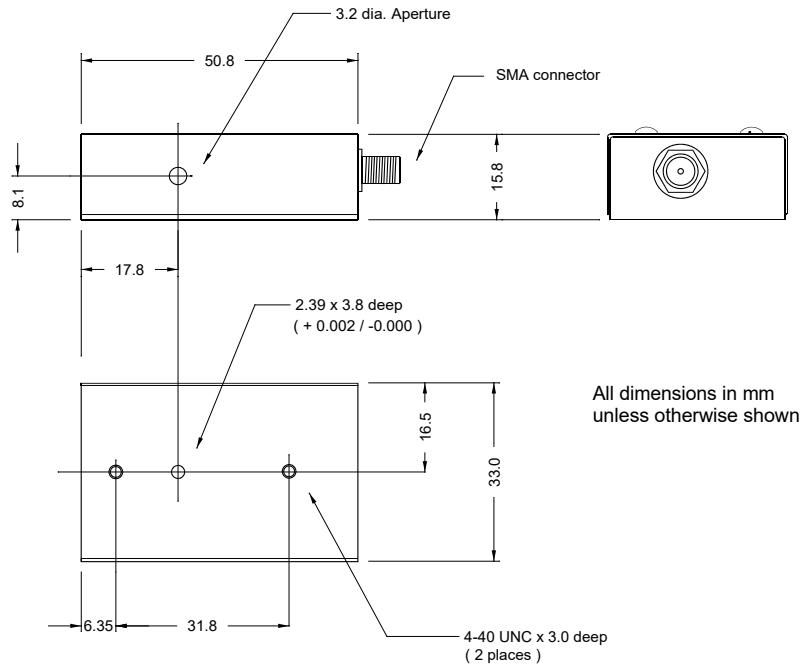


0821

ORIENTATION



OUTLINE DRAWING



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue 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