

## OAM1059A

### OFF-AXIS FREQUENCY SHIFTER



1106

The OAM1059A 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 <sub>2</sub> , off-axis
Active aperture:	1.5mm dia.
Center Frequency:	15MHz
RF Bandwidth:	2MHz
Input Impedance:	50 Ohms (nominal)
VSWR:	<2.5:1
Input angle:	Normal incidence
Separation angle:	0.8° from 0 <sup>th</sup> order
Laser Polarization:	Linear, horizontal or vertical
Optical Power:	<5 Watts
Static Insertion Loss:	<3%
Outline Dimensions:	(see reverse)

#### PERFORMANCE

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

#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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

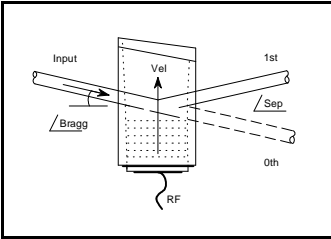
E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

Quality Assured.

In-house: Crystal Growth,

Optical Polishing,

A/R coating, Vacuum Bonding



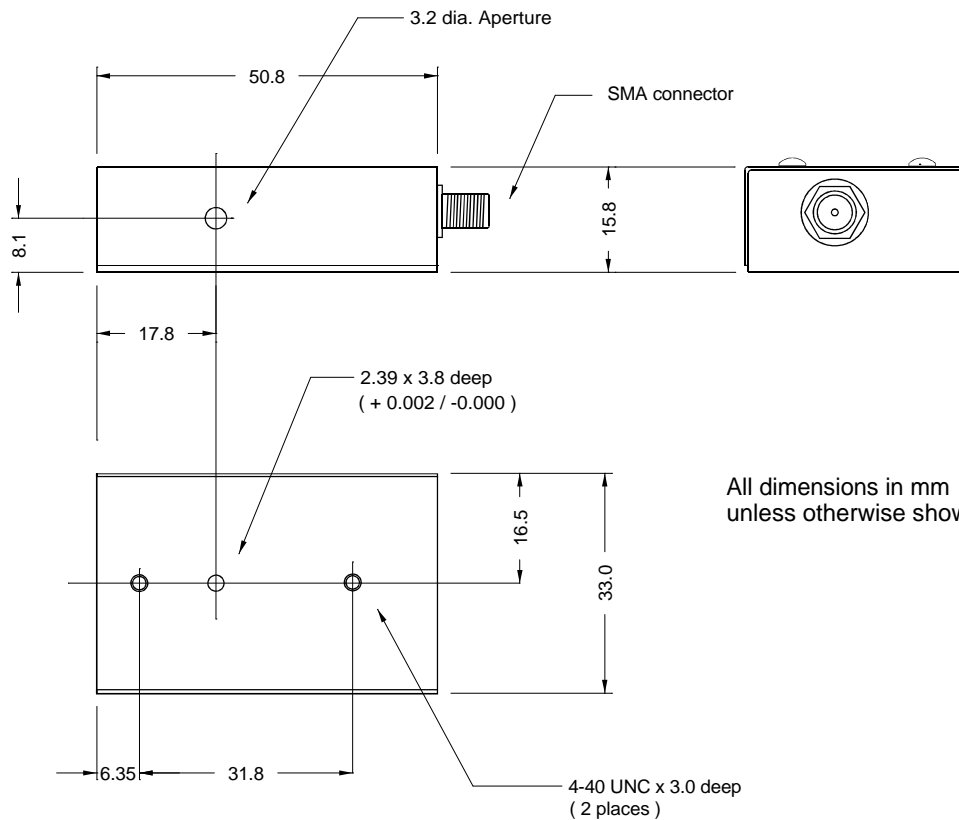
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### OUTLINE DRAWING



All dimensions in mm  
unless otherwise shown

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