



# UV AO Modulator

## M111-4UV(BR)-AT4

- High damage threshold
- UV range, 240 to 400nm
- 111MHz drive frequency

### Description

A 110MHz acousto-optic modulator suitable for use across the UV spectral range. Designed for high efficiency and broadband usage the Brewster angled optical faces permit operation at high optical powers.

Optional active aperture sizes make this the first-choice modulator for a wide range of UV laser systems. Water cooling is fitted as standard and while it is not necessary for normal operation may be used for stability control.

### Specification

Interaction Material:	Fused Silica
Wavelength:	240 to 400nm
Optical Faces:	Brewster angled
Damage Threshold:	> 500MW/cm <sup>2</sup>
Polarisation:	Linear, vertical to base
Frequency:	111MHz
VSWR:	< 1.2:1 (50Ω input impedance)
Active Aperture:	3.0mm
Optical Beam Diameter:	< 1.6mm
Diffraction Efficiency:	> 85%
Rise-Time / Fall-Time:	110ns / mm
Separation Angle:	4.4 to 7.4mrad, wavelength dependant
RF Power:	5.0W

### Options

Active aperture:	1.0mm to 8.5mm
Housing:	6 x 32UNC mounting holes
Water Cooling:	Optional (connectors supplied as standard)

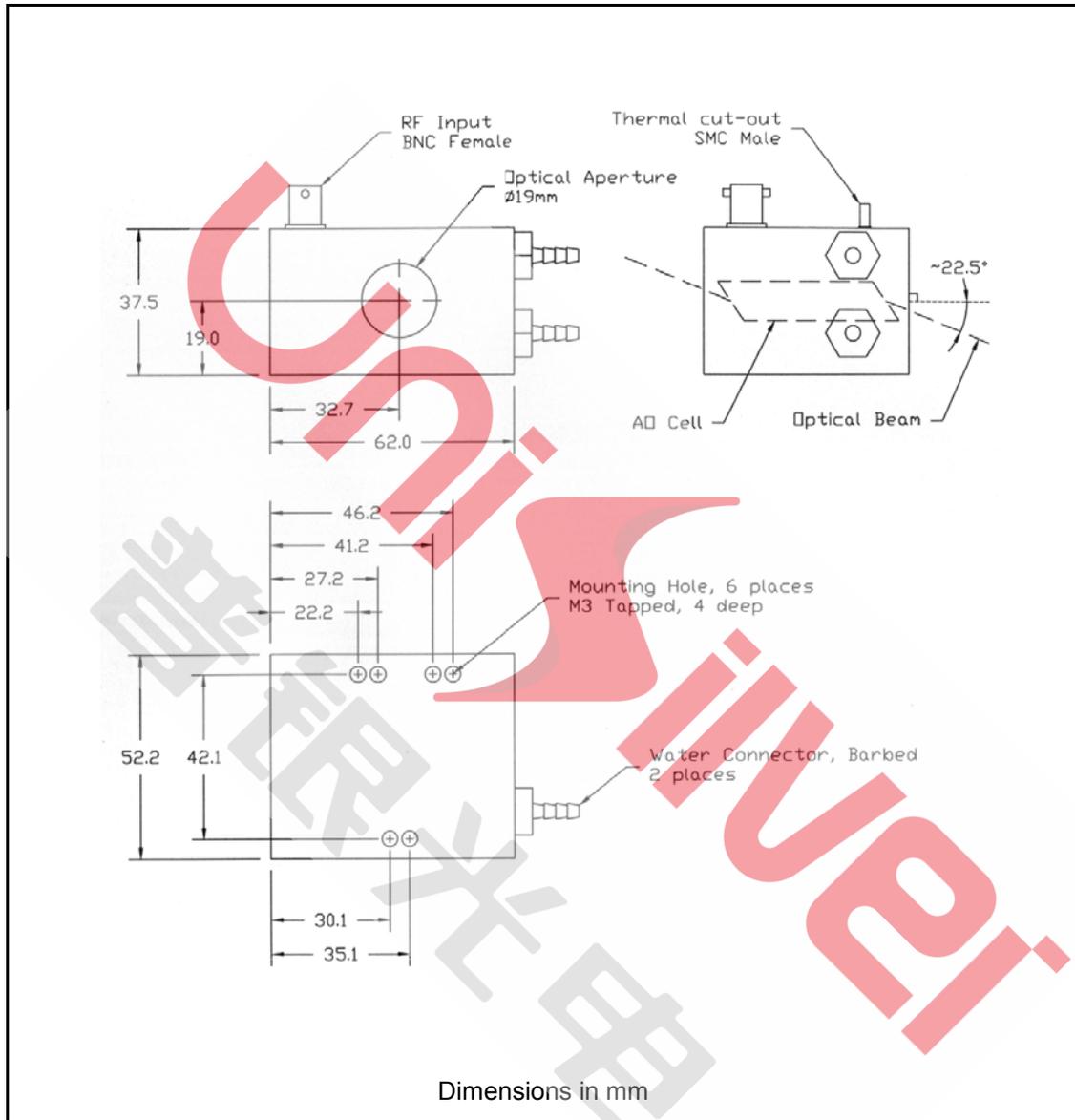
### Driver Selection

Digital & Analogue Modulation:	A344
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## Mechanical Dimensions



## Technical Assistance & Customisation

A team of scientists are available to discuss your special requirements and to assist in selecting the most appropriate acousto-optic device / RF driver combination. We customise products for OEM's.

Specifications subject to change without notice. October 2005 – Page 2



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