

# AO Modulator

## M111-10UV-OR1

- 351, 355 & 364nm
- High damage threshold
- 111MHz drive frequency

### Description

An acousto-optic modulator ideal for use with 355nm frequency tripled Nd:YAG and Nd:YVO<sub>4</sub> or 351nm / 364nm Argon lasers.

Manufactured in Crystal Quartz for improved thermal management & efficiency. This modulator combines high quality optical finishing with in house anti-reflection coatings to provide high extinction ratio and optimised throughput.

Alternative wavelengths, apertures or package designs are available. Please don't hesitate to contact us with your specific requirements.

### Specification

Interaction Material:	Crystal Quartz
Wavelength:	351 to 364nm
Anti-Reflection Coating:	< 0.3% per surface at 355nm < 0.5% per surface at 351 to 364nm
Transmission:	> 99% at 355nm > 98.6% at 351 to 364nm
Polarisation:	Linear, vertical to base
Extinction Ratio (1st order on / off)	> 55dB
Damage Threshold:	> 50KW/cm <sup>2</sup> (Average) > 500MW/cm <sup>2</sup> (Peak)
Frequency:	111MHz
VSWR:	< 1.2:1 (50Ω input impedance)
Active Aperture:	3.0mm
Diffraction Efficiency:	> 85%
Rise-Time / Fall-Time:	110ns / mm
Separation Angle:	6.5mrad at 355nm
RF Power:	< 3.0W

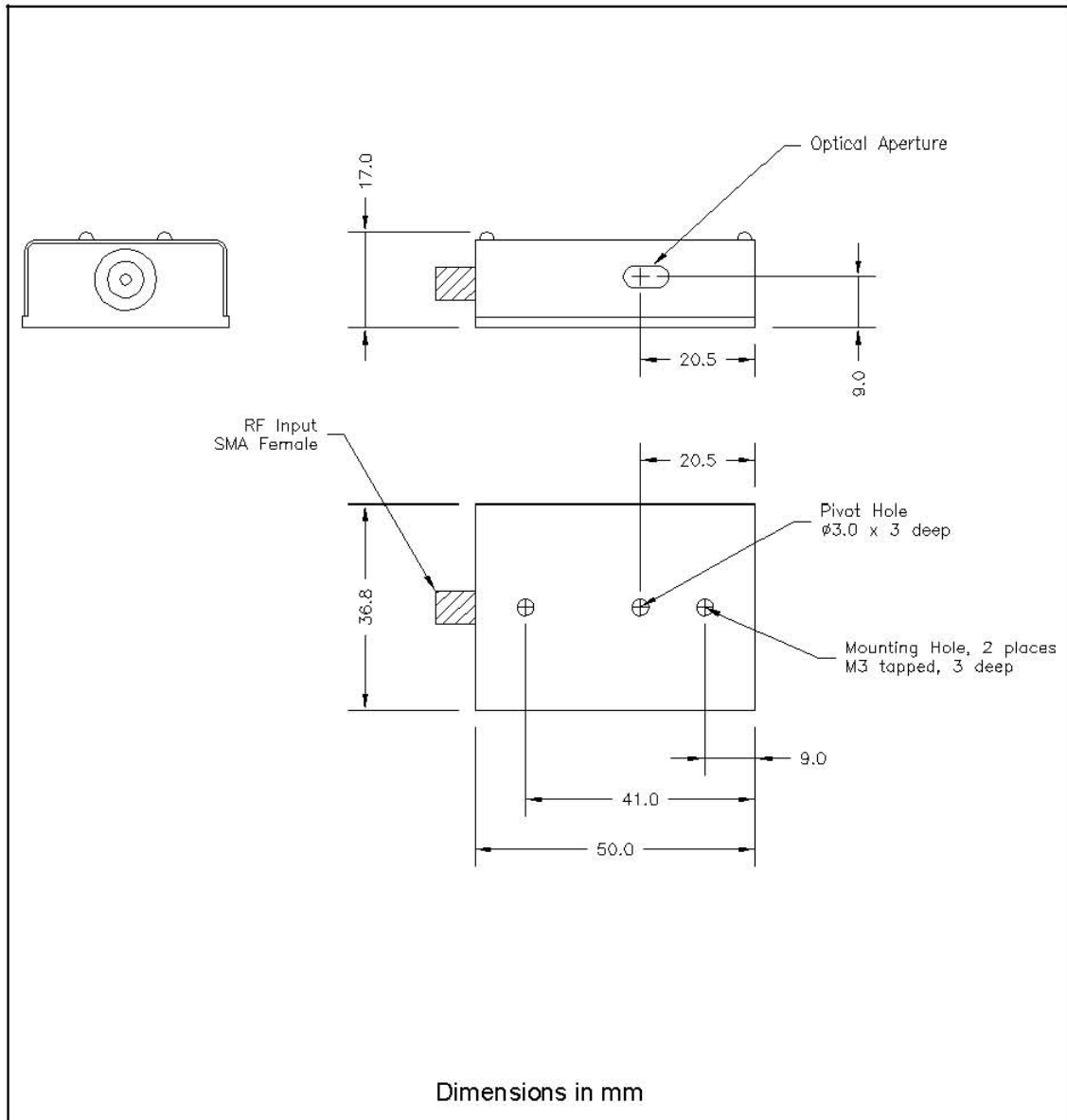
### Driver Selection

RF Driver Model No.: 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. November 2005 – Page 2



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