



AO Modulator

M350-2x

- 488nm, 532nm and 633nm
- 350MHz drive frequency
- 5ns rise-time

Description

A high bandwidth acousto-optic modulator, for use in the visible RGB spectral region. Using specially selected top-grade tellurium dioxide and with our renowned quality manufacturing processes, this modulator provides fast switching capability at low RF drive powers.

Available in three models, one each for red, green and blue, high efficiency coupled with excellent transmitted beam quality make it particularly suited to electronic pre-press applications.

Specification

Interaction Material:	Tellurium Dioxide
Acoustic Mode:	Isotropic, compressional
Wavelength M350-2B:	488nm, < 20mW
M350-2C:	532nm, < 20mW
M350-2E:	633nm
Anti-Reflection Coating:	< 0.2% per surface
Transmission:	> 97%
Polarisation:	Linear, vertical to base
Frequency:	350MHz
VSWR:	< 1.2:1 (50Ω input impedance)
Active Aperture:	0.15mm
Separation Angle:	40 to 52mrad, wavelength dependant
RF Power:	< 2W

Performance with a 30μm diameter, linearly polarised beam:

Rise-Time / Fall-Time:	5ns
Modulation Bandwidth:	100MHz
Diffacted Beam Ellipticity:	< 15%
Diffraction Efficiency:	> 80%

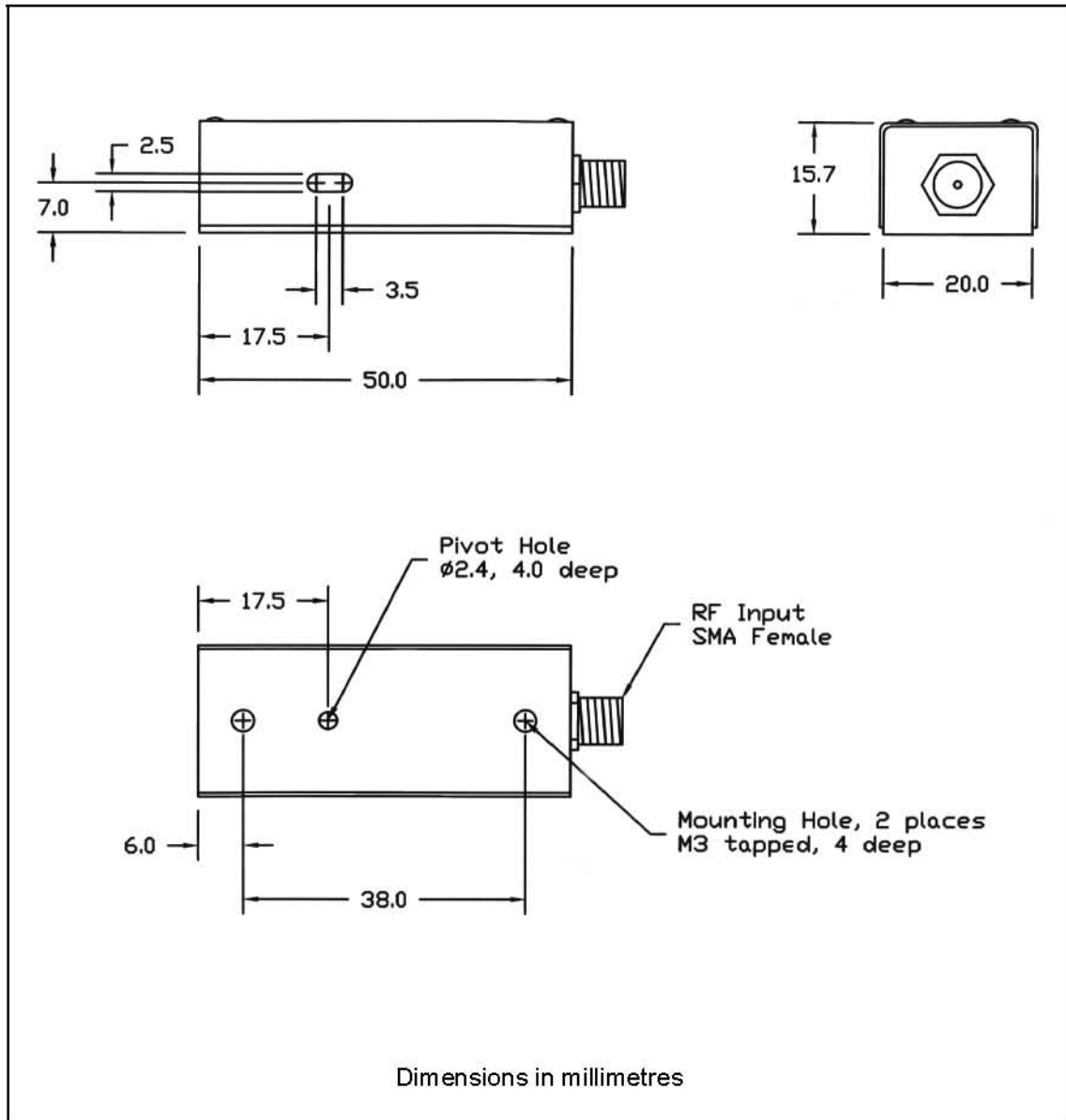
Driver Selection

Analogue / Digital Modulation:	A310
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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. September 2003 – Page 2



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