

AO Modulator

M080-1x-GHx

Features

- 450 to 850nm
- 80MHz drive frequency
- Up to 2mm beam diameter

Description

A general purpose acousto-optic modulator for use in the visible or near infra-red spectral regions. It's broadband anti-reflection coatings and large active aperture make it the ideal choice for cost-effective amplitude modulation of a wide range of low-power gas and diode lasers.

Available for the visible (B/E) and near infra-red (F), with active apertures of 1mm (GH1) or 2mm (GH2), laser beams with diameters ranging from 0.5 to 2mm may be modulated at moderate speed with high efficiency. For faster modulation, please refer to our extensive range of other AO modulators.

Specification

Interaction Material:		Lead Molybdate
Wavelength	M080-1B/E-GHx:	450 to 650nm
	M080-1F-GHx:	650 to 850nm
Anti-Reflection Coating:		< 0.5% per surface
Transmission:		> 95%
Polarisation:		Any
Frequency:		80MHz
VSWR:		< 1.2:1 (50Ω input impedance)
Active Aperture	M080-1x-GH1:	1mm
	M080-1x-GH2	2mm
Rise-Time / Fall-Time:		180ns/mm
Diffracted Beam Ellipticity:		< 5% typical
Diffraction Efficiency:		> 85% typical
RF Power:		< 1.5W

Options

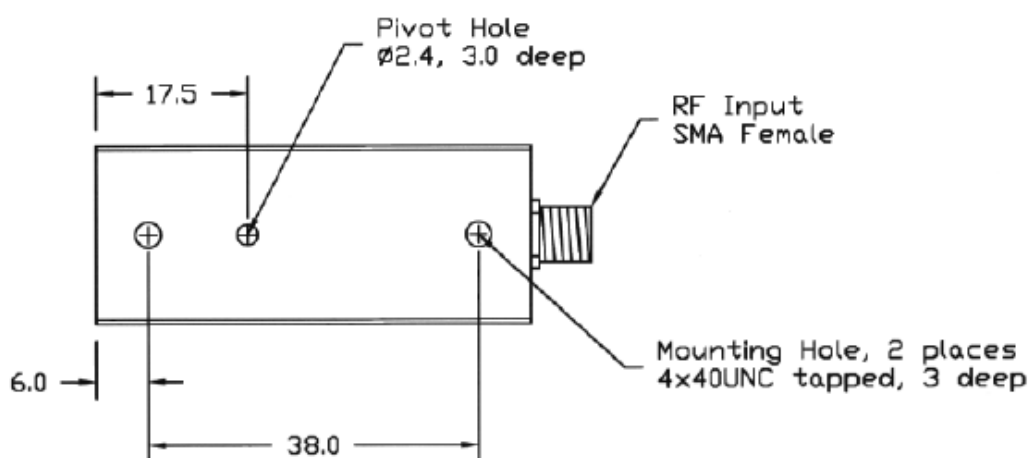
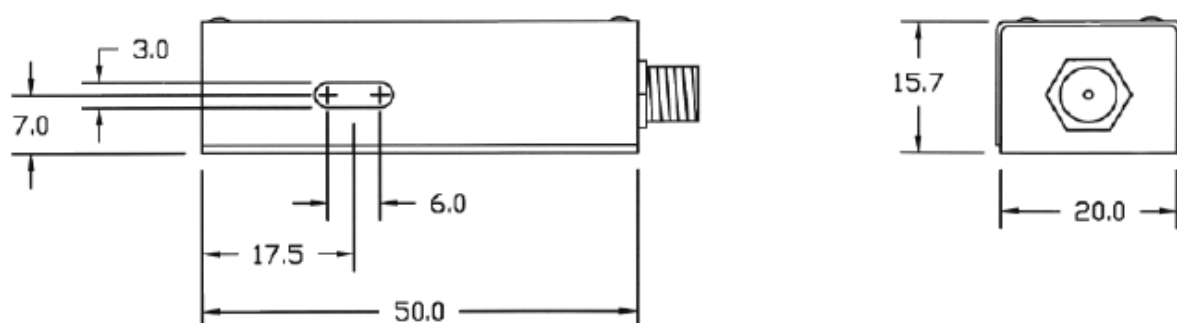
Frequency:	Alternatives available. Please enquire
Housing:	Metric (M3) mounting holes



Driver Selection

Digital Modulation:	A103
Analogue Modulation:	A014

Mechanical Dimensions



Dimensions in mm