

# AO Modulator

## M080-2G-LV1

### Features

- High efficiency (95% typical)
- Low drive power (0.3W typical)
- Compact
- Easy to align

### Description

The M080-2G-LV1 is a compact AO Modulator specifically designed for extra-cavity modulation of Nd:YAG/Nd:YVO<sub>4</sub> lasers where fast modulation is not critical. Rise times down to 10μs are readily achievable, together with excellent efficiency, typically > 95% for a well-collimated laser beam.

The relatively wide field of view means that good efficiency is achieved for more divergent beams.

### Specification

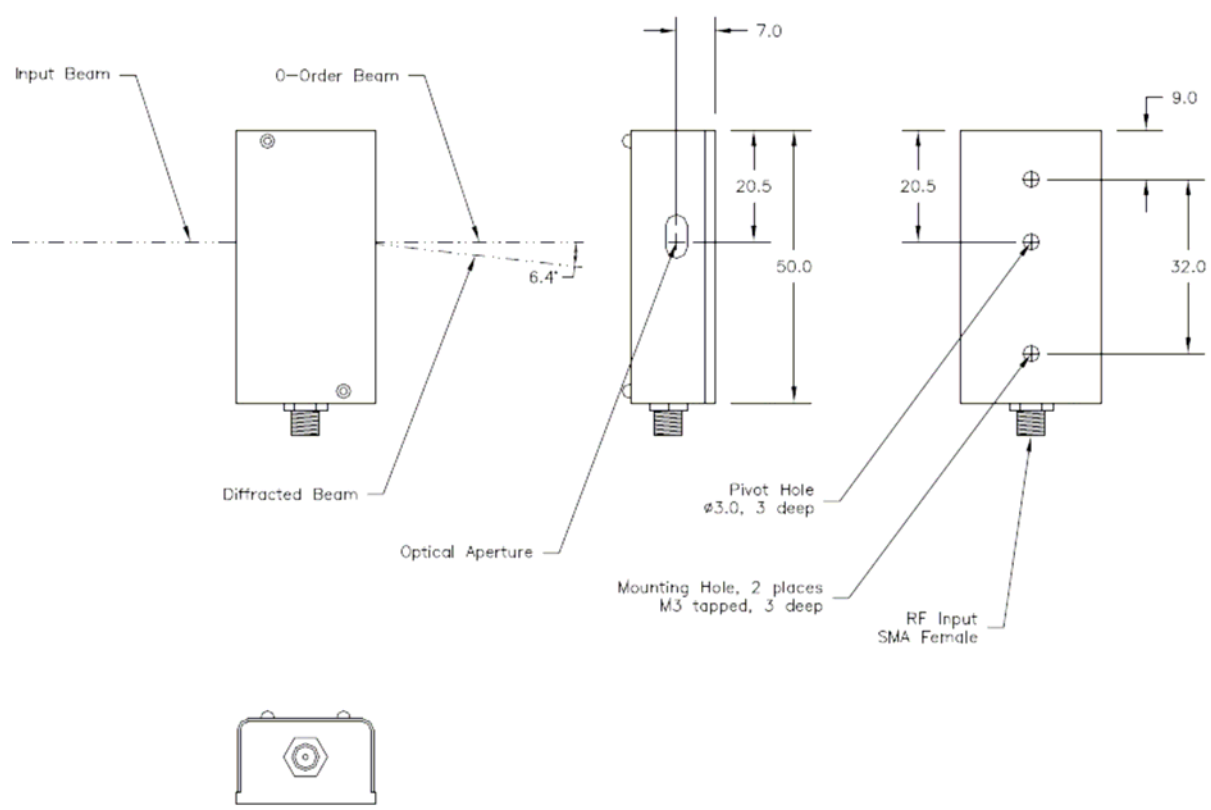
Interaction Material:	TeO <sub>2</sub>
Wavelength:	1064nm
Anti-Reflection Coating:	< 0.3% per surface
Polarisation Alignment:	±5°
Frequency:	80MHz
Input Impedance:	50Ω
Acoustic Mode:	Slow Shear
Active Aperture:	2.0 x 5.0mm
Clear Aperture:	4.0 x 5.0mm (min)
Recommended Beam Diameter:	1mm
Input Polarisation:	Linear - vertical to base
Diffacted Beam Polarisation:	Linear - rotated by 90° wrt input
Diffraction Efficiency:	> 90%
RF Connector:	SMA Female
RF Power:	0.5W
Housing:	Refer to Page 2

### Driver Selection

RF Driver Model No.:	N21080-1DM
	N21080-1AM



## Housing Dimensions



Performance assumes diffraction-limited beam; polarisation extinction >20dB