

M1080-T80L-1.5

NIR Acousto-Optic Modulator



0914

Compact AO Modulator designed for Medium to High Power NIR Fibre and DPSS laser applications

SPECIFICATIONS

Spectral Range: 0.36 > 1.5µm
 A/R Wavelengths: 0.7 – 0.9µm or 1.064µm
 Interaction Medium: Tellurium Dioxide (TeO₂)
 Acoustic Velocity: 4.2mm/µs

Centre Frequency (Fc): 80MHz
 RF Bandwidth: 30MHz
 Input Impedance: 50Ω Nominal
 VSWR: <1.5:1 @ Fc

Clear Aperture: 3.5mm
 Active Aperture: 1.5mm
 Static Insertion Loss: <3% at 1.1µm
 Reflectivity: < 0.5%/Surface
 Laser Polarization: Any

DC Contrast Ratio: >1000:1 min (>2000:1 typical)

Cooling: Conduction

Outline Dimensions: (See reverse)

TYPICAL PERFORMANCE

Optical Power: 20 Watts **

Beam Diameter (mm): 0.5 1.5

Optical Rise Time (ns): 77 230

Modulation Bandwidth (MHz) @ MTF = 0.5: 4 1.4

Deflection Efficiency (% @ CF) * : >85 >85 Polarization Perpendicular to Base
 >80 >80 Polarization Horizontal to Base

	780nm	840nm	1064nm
RF Power (nominal):	1.9 W	2.2 W	2.8 W
Bragg Angle:	7.4 mrad	8.0 mrad	10.5 mrad
Separation Angle at fc :	14.9 mrad	16.0 mrad	21.0 mrad

PLEASE SPECIFY OPERATING WAVELENGTH

* Single mode input

** For higher powers please contact Isomet

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

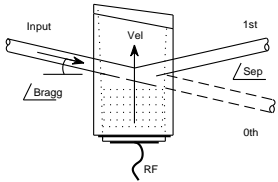
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Quality Assured.

**In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding**



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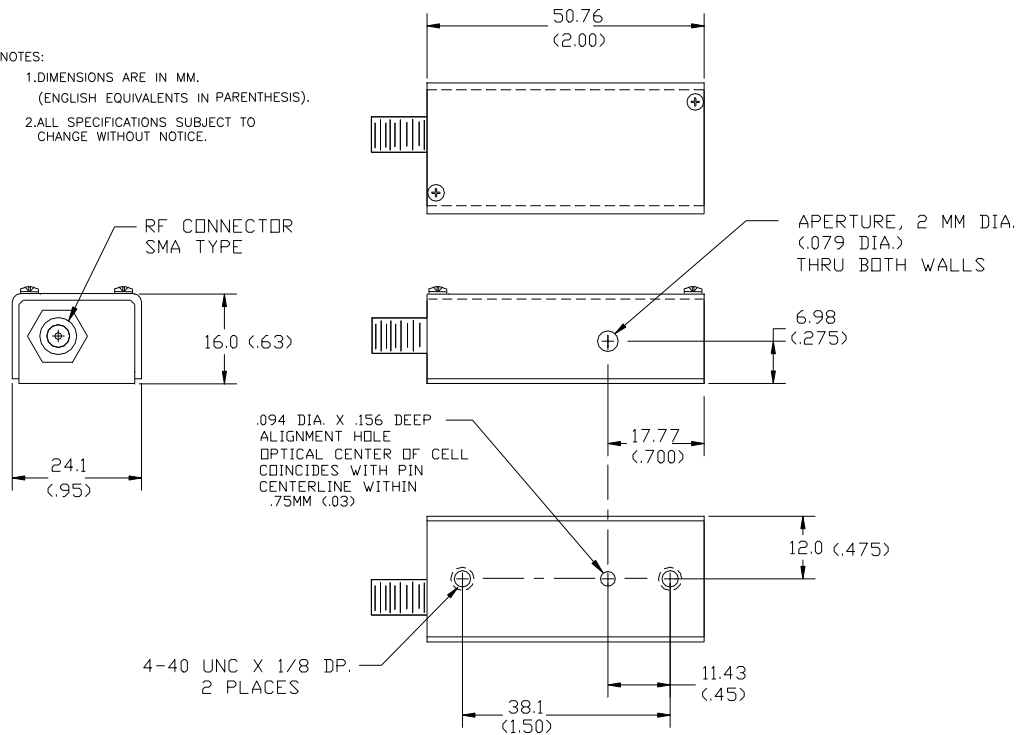


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OUTLINE DRAWING

NOTES:

1. DIMENSIONS ARE IN MM.
(ENGLISH EQUIVALENTS IN PARENTHESIS).
2. ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



Metric threaded mounting points available on request

Recommended Drivers

Model 522C-4 (Digital Modulation)

Model 532C-4 (Analog Modulation)

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