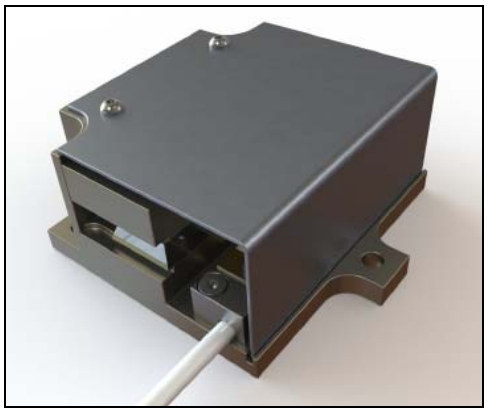
Sintec Optronics

1030-1064nm Acousto-Optic Modulator: I-M041-2.5C10G-4-GH50



An acousto-optic modulator for use in the 1030 –1064nm wavelength range, ideal for extra-cavity modulation, power control or stabilisation of high power picosecond or nanosecond solid state lasers. Manufactured in Crystal Quartz for improved thermal management and high damage threshold. This modulator combines high quality optical finishing with high grade anti-reflection coatings to maintain superior beam quality and high optical throughput. In addition to the specifications indicated, we also offer alternative wavelengths, RF frequencies, active apertures & a wide range of custom housing configurations. We also offer full custom design & manufacturing, enabling our customers to achieve the perfect solution. Our scientists and engineers are available to assist in selecting the most appropriate Acousto-Optic device and RF driver for your application.
Please contact our sales team for further information.

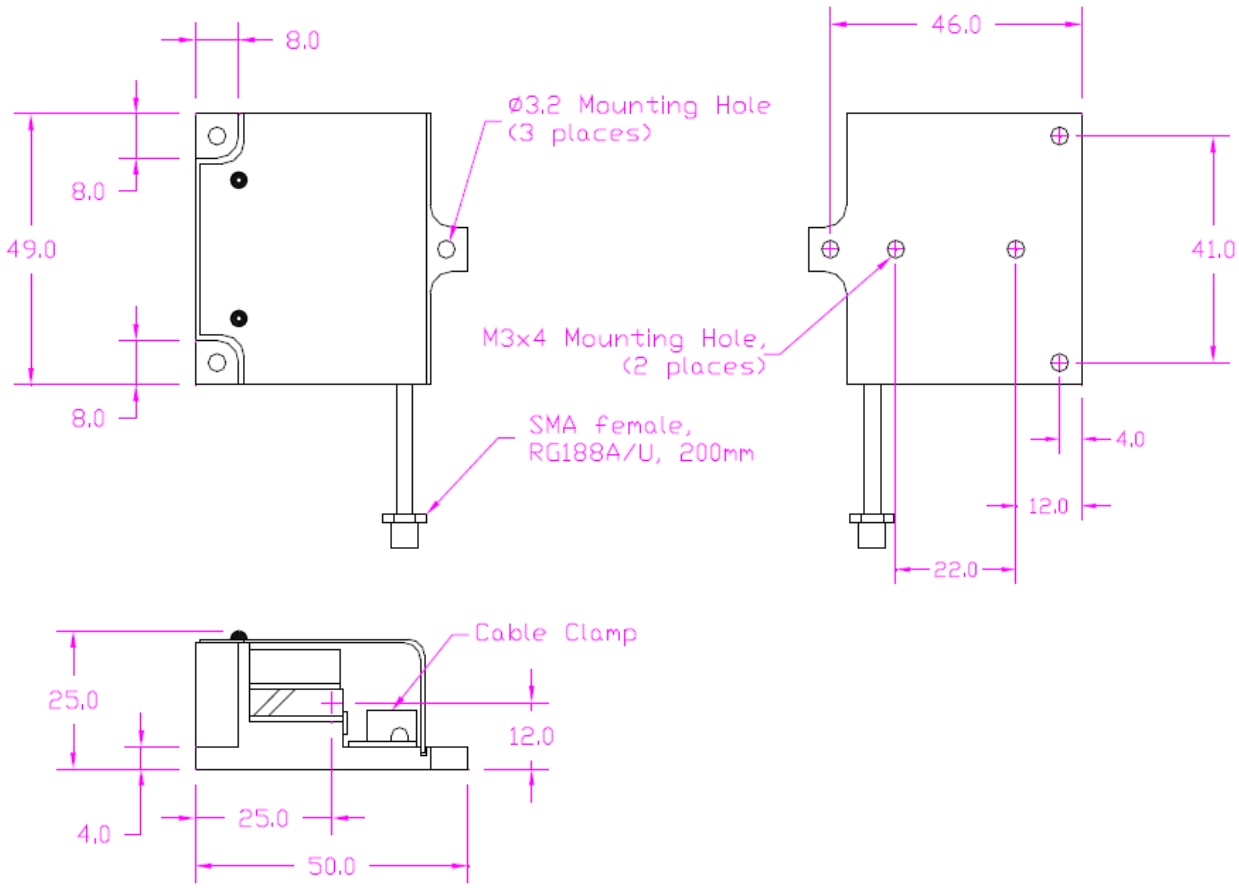
The applications cover industrial (material processing), pulse picking and laser intensity control.

General Specifications

- Interaction material: Crystal Quartz
- Wavelength: 1030-1064nm
- Damage threshold: > 1GW/cm2
- AR coating reflectivity: < 0·3% per surface
- Transmission: > 99·4%
- Frequency: 40.68MHz
- Optical polarisation: Linear, vertical to base
- Active aperture: 2.5mm
- Acoustic mode: Compressional
- Separation angle: 7.6mrad
- Rise-time (10-90%): 113ns/mm
- Diffraction Efficiency: 85%
- Maximum RF power: 20W
- Cooling: Conduction

Ordering Code:
Explanation: I-M041-2.5C10G-4-GH50 (Modulator, 41MHz, 2.5mm active aperture, compressional mode, Crystal Quartz, 1030 - 1064nm, SMA female pigtail, GH50 housing).

I	-	M	0	4	1	-	2	.	5	C	1	0	G	-	4	-	G	H	5	0


8.0
8.0
49.0
8.0
Ø3.2 Mounting Hole
(3 places)
M3x4 Mounting Hole,
(2 places)
SMA female,
RG188A/U, 200mm
46.0
41.0
4.0
12.0
22.0
Cable Clamp
25.0
12.0
4.0
25.0
50.0