

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.

Key Features:

Crystal Quartz 1030 – 1064nm High damage threshold 41MHz

Applications:

Industrial (material processing):

- Pulse Picking
- · Laser intensity control



General Specifications

Model No: I-M041-2.5C10G-4-GH50

Device: AO Modulator Interaction material: Crystal Quartz Wavelength: 1030-1064nm

Damage threshold: 1030-1004HIII > 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: $\geq 85\%$ Maximum RF power: 20W

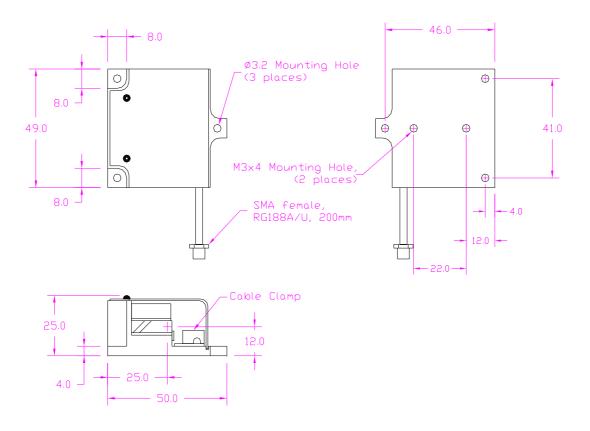
Cooling:

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).

Conduction

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Contact: sales@goochandhousego.com