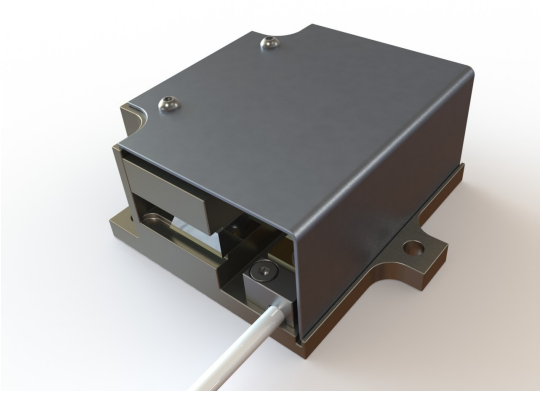
G&H
ENABLING PHOTONIC TECHNOLOGIES



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

Contact: sales@goochandhousego.com www.goochandhousego.com

General Specifications

Model No:	I-M041-2.5C10G-4-GH50
Device:	AO Modulator
Interaction material:	Crystal Quartz
Wavelength:	1030-1064nm
Damage threshold:	> 1GW/cm^2
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).

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