

ACOUSTO-OPTIC MODULATOR

400-540 nm

PRODUCT DATASHEFT

An acousto-optic modulator for use in the 400-540 nm wavelength range, ideal for frequency doubled Nd:YAG and Nd:YVO4 lasers and diode or gas lasers within this range.

Manufactured in crystal quartz for improved thermal management and efficiency. 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 and a wide range of custom housing configurations. We also offer full custom design and 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
- 400-540 nm
- High damage threshold
- 110 MHz

Applications

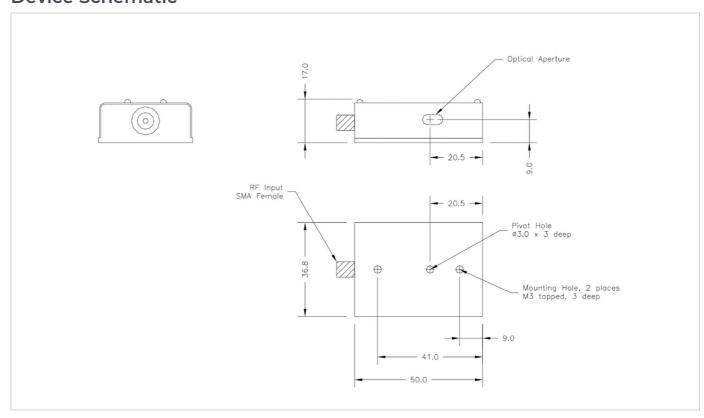
- Industrial (material processing)
 - Pulse picking
 - Laser intensity control



General Specifications

Model No:	I-M110-2C10B6-3-GH26							
Interaction material:	Crystal quartz							
Wavelength:	400-540 nm							
Optical polarisation:	Linear, vertical to base							
AR coating reflectivity:	< 0.5% per surface							
Damage threshold:	> 500 MW/cm ² (pulsed)							
Transmission (single pass):	> 99.0%							
RF frequency:	110 MHz							
VSWR:	< 1.2:1							
Active aperture:	2.0 mm							
Acoustic mode:	Compressional							
Rise-time:	113 ns/mm							
Separation angle:	10.2 mrad at 532 nm							
Diffraction efficiency:	> 85%							
RF power:	< 5 W							

Device Schematic



ACOUSTO-OPTIC MODULATOR - I-M110-2C10B6-3-GH26



Ordering Information

Explanation: I-M110-2C10B6-3-GH26 (Modulator, 110 MHz, 2.0 mm active aperture, compressional mode, crystal quartz, 400-540 nm, SMA male bulkhead, GH26 housing).

Order code			1				2	3	(4	4)		(5)		6							
	I	-	М	1	1	0	-	2	С	1	0	В	6	-	3	-	G	Н	2	6	