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ACOUSTO OPTIC Q SWITCH

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results, 1.0 acousto-optic q-switch: The U. S.

Laser high power acousto-optic Q-Switch is

an optical device utilizing Bragg diffraction to

spoil the gain of the laser cavity, allowing

loss modulation, or, "Q-Switching"., ANALOG

CONTROL (R05) SWITCHED TO RF

OPERATING MODE CONTROL DIAGRAM

Mod In Fixed Mod In Variable RF Out Mod In

Analog TTL LOW TTL LOW TTL HIGH A

TTL HIGH B C Pulse Width 1-20µs 0V 5V

10 9 8 7 4 11 5 12 6 C B A External Fault

Indicators 3 +3.3V +15V ENABLE ZERO

CROSS 1 SYNC OUT SYNC OUT 3.3V

LOW SWR ALARM HP LP Normal Trigger

Polarity shown. Invert signals A and B for

NEG operation., Location of the Q-switch

within the cavity; To avoid sacrificing

diffraction efficiency, there is a tradeoff

between the RF power applied and durability.

More rugged or durable acousto-optic

Q-switch materials generally require more

RF drive power, and may need water or

conduction cooling., 1. QS Series Q-switch

Element 1) Standard QS24/27 Series

Industrial Q-switches A water-cooled

acousto-optic Q-Switch for use in high-power

Nd:YAG laser systems. Combining top grade

fused silica with high quality optical finishing

and in-house anti-reflection coatings, this

Q-Switch exhibits very low insertion loss and

high damage threshold., II-VI Incorporated

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724.352.5284 | www.ii-vi.com II-VI

Incorporated Introduces Acousto-optic

Q-switch Modules for Diode Pumped,

Acousto-optic Q-switch 15 could be

positioned between mirror 14 and the lasing

medium 12 and still function in an identical

manner. The acousto-optic Q-switch 15

consist of crystal 16 and a transducer 17

affixed thereto., As part of our policy of

continuous product improvement we reserve

the right to change specifications at any time

â€˜Industry Standardâ€™™ Acousto-Optic

Q-Switch, Acousto Optic Q-switch

Features/Applications â€¢ High Damage

Threshold â€¢ Up to 80 MHz RF Frequency

â€¢ Analog Light Intensity Modulation, The

Acousto -Optic Modulator is based on the

elasto -optic effect, ... This paper presents the working of Acousto -Optical switch manufactured by the IntraAction Corp., Acousto-Optical Q-switch The acousto-optical Q-switch often used in the laser marking makes use of mutual interaction between an ultrasonic wave and a light beam in a scattering medium., Acousto-Optic Q-Switch I-QS080-1C2G-E-3D1 ... An ultra compact conduction-cooled Acousto-Optic Q-Switch, ideally suited to short cavity, short pulse,, Acousto-optic devices are primarily used for controlling laser beams. This includes Modulators, Deflectors, Tuneable Filters, Frequency Shifters and Q-switches., Acousto-optic Q Switches Figure 1: Schematic setup of a non-resonant acousto-optic modulator. A transducer generates a sound wave, at which a light beam is partially diffracted., Isomet Corporation worlds leading producer of Acousto Optic devices Home; Acousto ... The goal of a Q-switch is to diffract as much power from the zero order as ..., The acousto-optic interaction also makes it

possible to modulate the optical beam by both temporal and spatial modulation. A simple method of modulating the optical beam travelling through the acousto-optic device is done by switching the acoustic field on and off.

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