



A new compressional mode, water-cooled, AO Q-Switch designed to work with high power unpolarised Nd:YAG lasers, giving faster switching & improved pulse to pulse stability.

Enhance your systems performance with greater punch and increased power.

This Q-Switch uses a dual channel driver to operate two orthogonal compressional mode transducers bonded to a single monolithic optical cell and mounted in one convenient housing. Gooch and Housego's proprietary bonding techniques and power handling technology allows this device to operate up to 50W RF power per channel giving an efficient, compact, single device for the next generation of high power, high gain, solid state lasers.

Our scientists and engineers are available to assist in selecting the most appropriate model of Q-Switch and also RF driver for your application.

'Super Q-Switch' Acousto-Optic Q-Switch

Key Features:

Industry standard for Nd:YAG lasers Worldwide reputation High damage threshold Low insertion loss Up to 100W RF power handling Custom configurations available

Applications:

Material processing: Laser marking Laser engraving Laser cutting Medical (surgery) Lithography

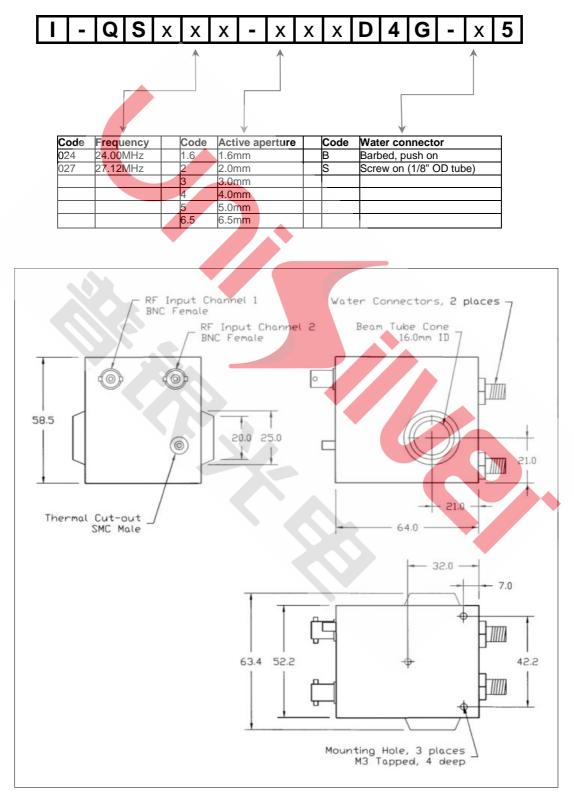
General Specifications

Interaction material: Wavelength: AR coating reflectivity: Damage threshold: Transmission (single pass): VSWR: Acoustic mode: Rise-time / fall-time: RF power rating: Water flow rate: Water flow rate: Water-cooling channel material: Recommended water temperature: Thermal switch cut-off: Fused Silica 1064nm < 0.2% per surface $> 1GWcm^{-2}$ > 99.6% < 1.2:1 (<1.4:1 at 50W RF power)Compressional (orthogonal) 109ns/mm $2 \times 50W cw (max)$ > 190cc / minuteAluminium (de-ionised water is strongly recommended) $+22^{\circ}C to +32^{\circ}C$ $+55^{\circ}C +/-5^{\circ}C$



Ordering Codes

Example: I-QS027-4D4G-B5 (Q-Switch, 27.12MHz, 4mm active aperture, Dual (orthogonal transducer), fused silica, 1064nm, Barbed water-connectors, BNC)



Contact: sales@goochandhousego.com

www.goochandhousego.com