



An innovative Q-Switch designed for use in very high power side pumped Nd:YAG lasers.

Dual-axis compressional mode transducers provide faster switching speed & improved pulse to pulse stability. Top grade Crystal Quartz, combined with our high quality optical finishing and AR coating provides excellent power handling and thermal stability.

In addition to the standard product shown, custom configurations are available for specialised applications. These include alternative housing options, wavelengths and RF frequencies.

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

Please contact the sales team for further information.

Super Q-Switch Acousto-Optic Q-Switch

Key Features:

High loss modulation / hold-off High damage threshold Low insertion loss Maintains beam quality Extended temperature range Custom configurations available

Application examples:

Material processing:

- Marking
- Engraving
- Scribing
- Surface treatment Medical (surgery)



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 cooling channel material: Thermal switch cut-off: Storage temperature: Crystal Quartz 1064nm < 0.2% per surface $> 1GWcm^{-2}$ > 99.6% < 1.3:1 (at 0dBm)Compressional (dual, orthogonal) 113ns/mm $2 \times 50W cw (max)$ > 190cc / minuteAluminium (**de-ionised water is strongly recommended**) $+65^{\circ}C +/-5^{\circ}C$ -20 to +70degC

Ordering Codes

Example: I-QS027-4D10G-B5 (Q-Switch, 27.12MHz, 4mm active aperture, Dual (orthogonal transducer), crystal quartz, 1064nm, Barbed water-connectors, BNC)

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