



A custom version of our Stallion Q-Switch, optimised for use at 1550nm.

The patented 'Stallion' manufacturing technique provides superior corrosion resistance whilst maintaining optimum performance and RF power handling capabilities up to 100W.

Combining top grade Crystal Quartz with high quality optical finishing and in-house antireflection coatings, this Q-Switch exhibits very low insertion loss and high damage threshold.

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.

Water-Cooled Acousto-Optic Q-Switch

I-QS027-4S4V2-x5-ST1

Key Features:

1550nm Superior corrosion resistance Stainless steel cooling channels High damage threshold Push fit water-connectors Custom configurations available

Application examples:

Material processing Medical Scientific



General Specifications

Interaction material: Wavelength: Polarisation:
AR coating reflectivity:
Damage threshold:
Transmission (single pass):
RF Frequency:
Acoustic mode:
Active aperture:
VSWR:
Loss modulation:
RF power rating (maximum):
Water flow rate:
Water-cooling channel material:
Recommended water temperature:
Thermal switch cut-off:
Storage temperature:

Infrasil (water-free fused silica) 1550nm Any < 0.2% per surface > 500MWcm⁻² > 99.6% 27.12MHz Shear 4.0mm < 1.2:1 (<1.4:1 at 50W RF power) > 60% 100W > 0.2l / minute Stainless steel 316 +22°C to +32°C +55°C +/- 5°C 0 to +50degC

Ordering Codes

Example: I-QS027-4S4V2-P5-ST1 (Q-Switch, 27.12MHz, 4mm active aperture, shear mode, Fused Silica, 1550nm, 6mm OD straight push fit water-connectors, BNC, Stallion housing with M3 mounting holes)





