



## Conduction-cooled Acousto-Optic Q-Switch

I-QS041-1.8C10G-4-GH21

The 'Industry standard' conduction-cooled Acousto-Optic Q-Switch for end pumped Nd:YAG & Nd:YVO<sub>4</sub> lasers.

Utilising top grade Crystal Quartz for increased efficiency & thermal stability, with high quality optical finishing & high damage threshold anti-reflection coatings to provide high damage threshold & low insertion loss.

In addition to the specifications indicated, we also offer alternative wavelengths, RF frequencies, active apertures & an extensive range of mechanical housing configurations. We also offer full custom design & manufacturing, enabling our customers to achieve the perfect solution.

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 our sales team for further information.

### Key Features:

- Industry standard
- Conduction-cooled
- High damage threshold
- High efficiency
- Custom configurations available

### Application examples:

- Material processing:
  - Marking
  - Engraving
  - Scribing
  - Surface treatment

### General Specifications

Interaction material:	Crystal Quartz
Wavelength:	1064nm
Optical polarisation:	Linear, vertical to base
AR coating reflectivity:	< 0.2% per surface
Damage threshold:	> 1GWcm <sup>-2</sup>
Transmission (single pass):	> 99.6%
RF frequency:	40.68MHz
VSWR:	< 1.2:1
Active aperture:	1.8mm
Rise-time:	113ns/mm
Loss modulation:	> 85%
RF power rating:	20W (max)
Storage temperature:	-20 to +70degC

### Ordering Codes

**Explanation: I-QS041-1.8C10G-4-GH21** (Q-Switch, 41MHz, 1.8mm active aperture, compressional mode, Crystal Quartz, 1064nm, SMA female pigtail, GH21 housing).

**I - QS041 - 1 . 8 C10G - 4 - GH21**

