

## Conduction-cooled Acousto-Optic Q-Switch

I-QS041-1.8C10G-4-GH21

Former model number: QS041-10G-GH21

A compact conduction-cooled Acousto-Optic Q-Switch, ideally suited to 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 & a wide range of custom housing configurations. We also offer full custom design & manufacturing, enabling our customers to achieve the perfect solution.

### Key Features:

- Compact package
- Conduction-cooled
- High damage threshold
- High efficiency
- Custom configurations available

### Applications:

- Industrial (material processing):
- Laser Marking
  - Engraving
  - Drilling

## General Specifications

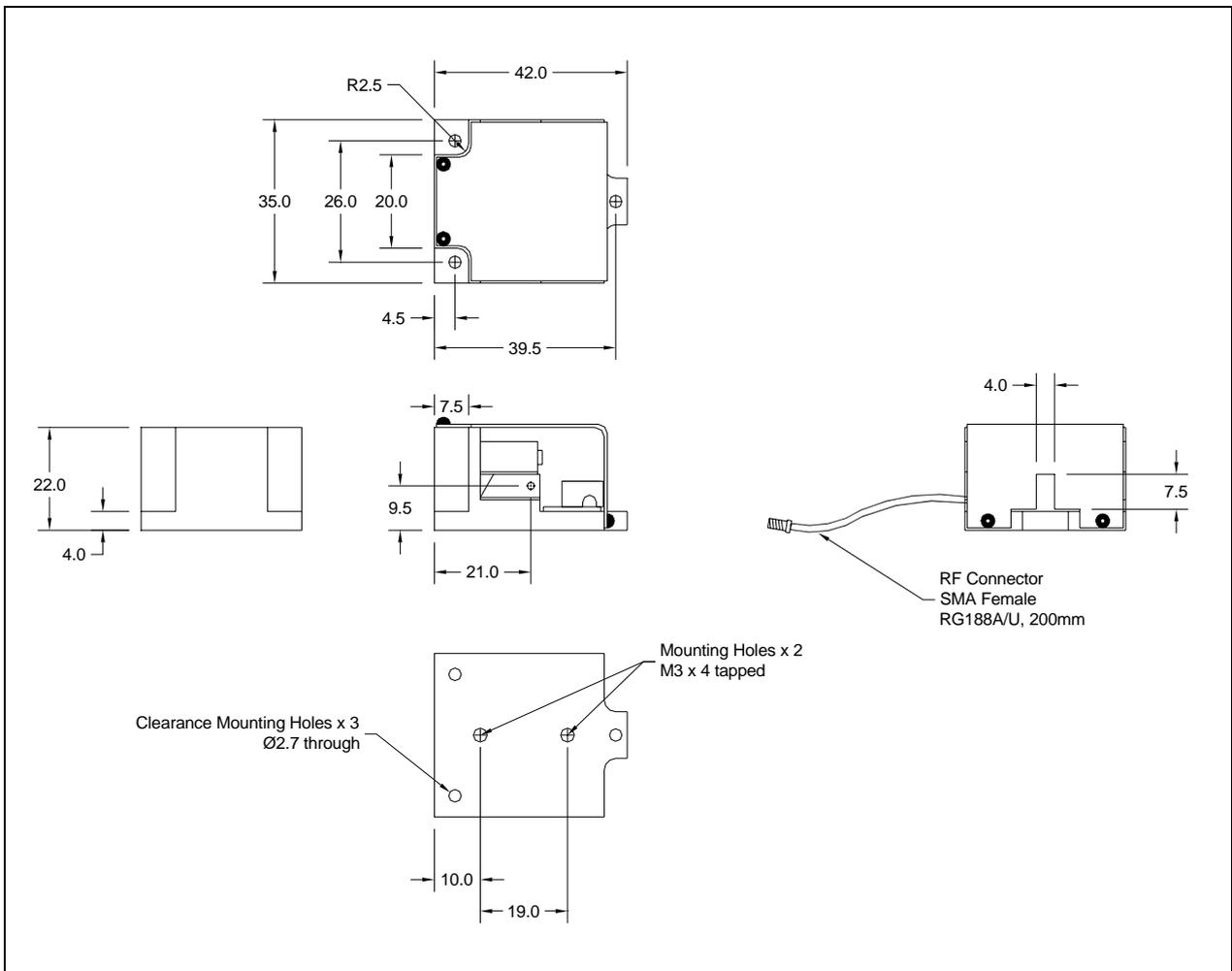
Interaction material:	Crystal Quartz
Wavelength:	1064nm
Optical polarisation:	Linear, vertical to base
AR coating reflectivity:	< 0.2% per surface
Damage threshold:	> 1GWcm <sup>-2</sup>
Transmission (single pass):	> 99.6%
RF frequency:	40.68MHz
VSWR:	< 1.2:1
Active aperture:	1.8mm
Rise-time:	113ns/mm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

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**Ordering Code**

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

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