



AO Q-Switch

QS041-10G-GH12

- DPSS Nd:YAG / Nd:YVO₄, linearly polarised
- Compact conduction cooled, Crystal Quartz
- 2mm active aperture

Description

A compact, conduction-cooled, acousto-optic Q-Switch for use in DPSS Nd:YAG & Nd:YVO₄ lasers. Utilising the same manufacturing technology as our industry standard, high power QS24/27 series, these compact devices offer unrivalled reliability through superior optical quality and coatings.

Optimised for use with linearly polarised beams of up to 1.6mm diameter, offering loss modulation figures exceeding 85%. Utilising Crystal Quartz as the interaction material to give increased efficiency and high thermal transfer properties allowing use at RF powers of up to 15W, conduction-cooled.

This Q-Switch can also be customised to feature alternative frequencies, active apertures and housing designs, our team of scientists will be pleased to discuss variations with you.

Specification

Interaction Material:	Crystal Quartz
Wavelength:	1047 to 1064nm
Polarisation:	Linear, vertical to base
Anti-Reflection Coating:	< 0.2% per surface
Damage Threshold:	> 500MWcm ⁻² (1GWcm ⁻² typical)
Transmission (single pass):	> 99.6%
Frequency:	40.68MHz
VSWR:	< 1.2:1 (50Ω input impedance)
Active Aperture:	2.0mm
Clear Aperture:	3.0mm
Acoustic Mode:	Compressional
Rise-Time / Fall-Time:	109ns/mm
Loss Modulation:	> 85% at 15W
Beam Separation:	7.3mrad
Acceptance Angle (full):	6.1mrad
RF Power Rating:	15W cw
Cooling:	Conduction through base

Driver Selection

Driver Model: N38041-15DMA05 or N39041-xxDMFPS

Distributed by:

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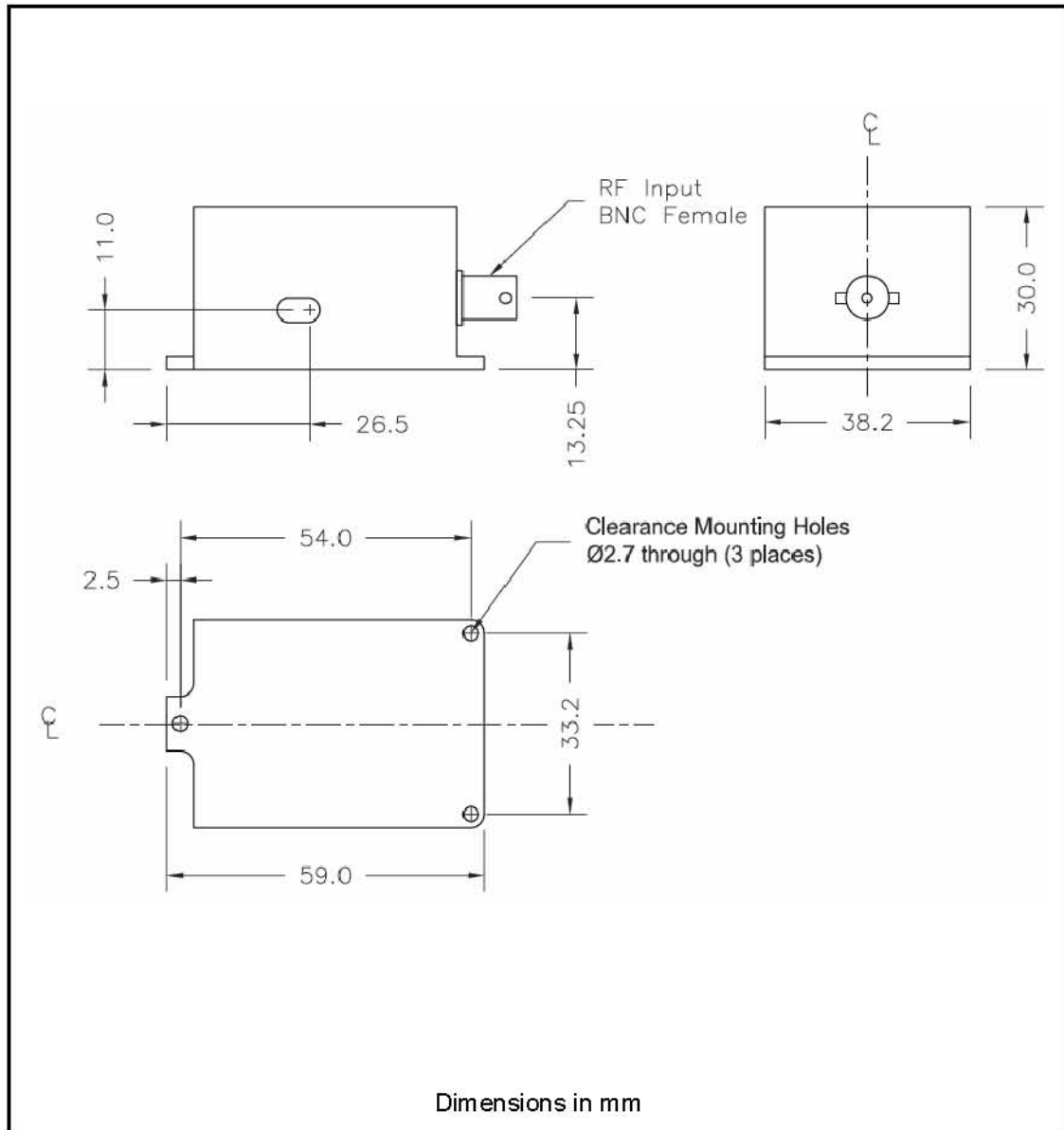


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Mechanical Dimensions



Technical Assistance & Customisation

A team of scientists are available to discuss your special requirements and to assist in selecting the most appropriate acousto-optic device / RF driver combination. We customise products for OEM's.

Specifications subject to change without notice. December 2005 – Page 2



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