新特光电
Sintec Optronics

Conduction-cooled Acousto-Optic Q-Switch

I-QS041-5C10V5-x5-ST3

A custom version of our Stallion Q-Switch, optimised for use at 2100nm.

The patented 'Stallion' manufacturing technique provides superior corrosion resistance whilst maintaining optimum performance and RF power handling.

Combining top grade Crystal Quartz with high quality optical finishing and in-house anti-reflection 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.

Key Features:

- 2100nm
- 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

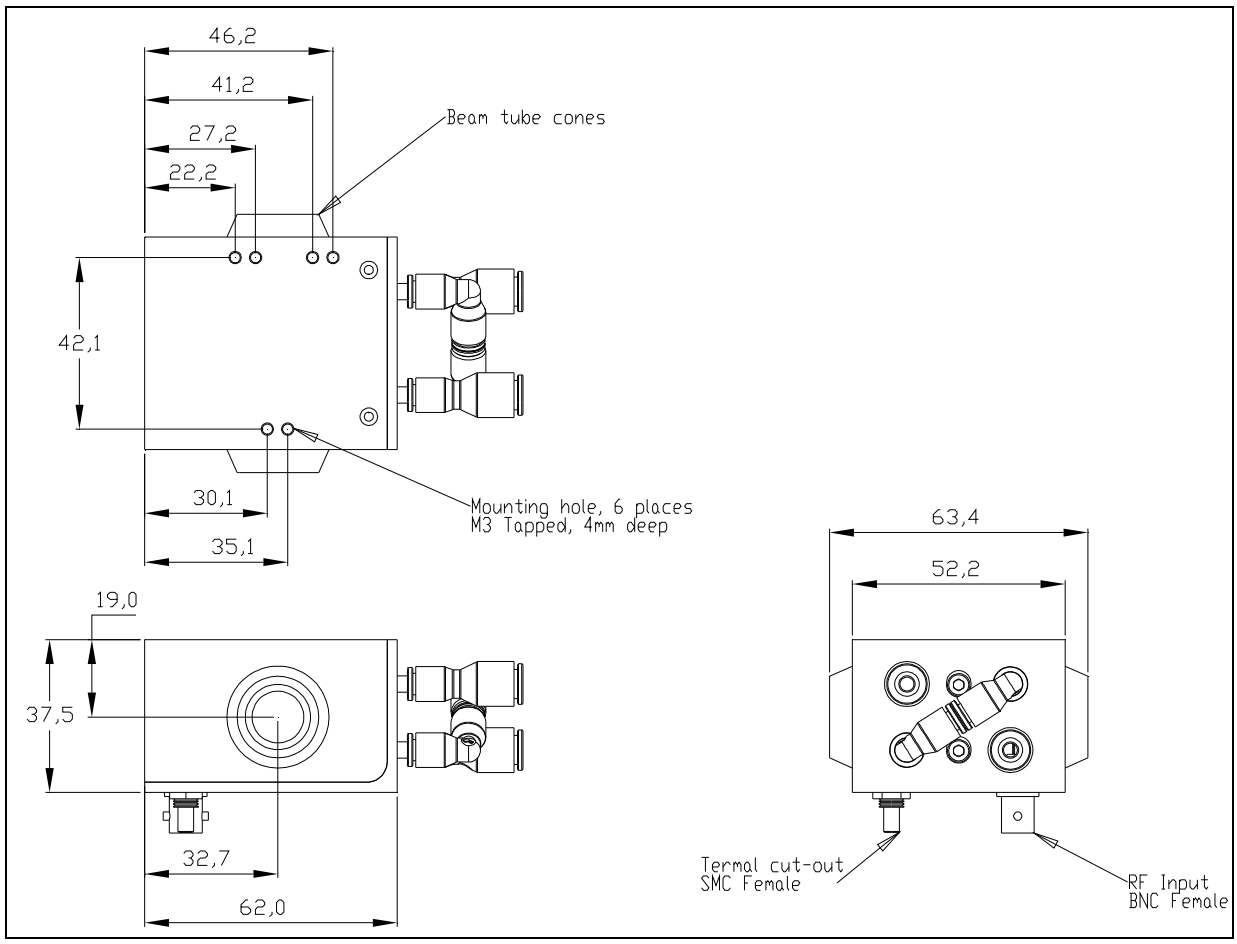
Interaction material:	Crystal Quartz
Wavelength:	1900 - 2100nm
AR coating reflectivity:	< 0.5% per surface
Damage threshold:	> 500MWcm^{-2}
Transmission (single pass):	> 99.0%
RF frequency:	40.68MHz
Acoustic mode:	Compressional
Active aperture:	5.0mm
VSWR:	< 1.2:1 (<1.4:1 at 50W RF power)
Loss modulation:	70%
RF power rating (maximum):	50W
Water flow rate:	> 0.2l / minute
Water-cooling channel material:	Stainless steel 316
Recommended water temperature:	+22°C to +32°C
Thermal switch cut-off:	+65°C +/- 5°C
Storage temperature:	-20 to +70degC

Ordering Codes

Example: I-QS041-5C10V5-U5-ST3 (Q-Switch, 40.68MHz, 5mm active aperture, compressional mode, Crystal Quartz, 1900-2100nm, 6mm OD right angle push fit water-connectors, BNC, Stallion housing with M3 mounting holes)

I	-	Q	S	0	4	1	-	5	C	1	0	V	5	-	x	5	-	S	T	3

Code	Water connector
N	4mmOD straight push fit
P	6mmOD straight push fit
Q	4mmOD right angle push fit
U	6mmOD right angle push fit


46,2
41,2
27,2
22,2
Beam tube cones
42,1
30,1
35,1
Mounting hole, 6 places
M3 Tapped, 4mm deep
19,0
37,5
32,7
62,0
63,4
52,2
Termal cut-out
SMC Female
RF Input
BNC Female