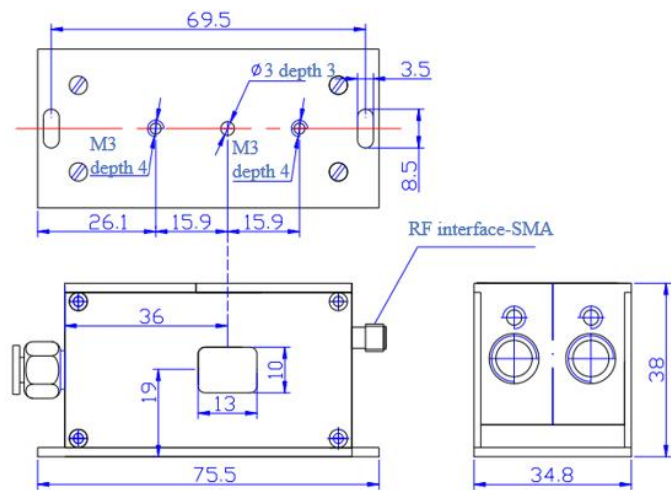


10.6 μm Acousto-optic Q switch series

Product Overview:	The product is a Q switch of 10.6μm laser cavity which is realized by the interaction principle of ultrasonic wave and light. It has high diffraction efficiency and can realize active Q modulation in laser cavity. It is a water-cooled heat dissipation device. The use of high-quality raw materials, unique manufacturing and packaging technology, making the product strong and compact, corrosion resistance and superior beam quality, to ensure that the product works in the best state, is an indispensable role in the field of laser processing (lithography, marking, medical, etc.).
Performance characteristics:	<ul style="list-style-type: none"> •High repetition rate •High diffraction efficiency •High temperature stability and reliability •High damage threshold
Application area:	<ul style="list-style-type: none"> •Laser marking、cutting、engraving •Laser ranging •Laser medical treatment
Ordering Information:	This indicator is a typical optical wavelength indicator, and other wavelengths and frequencies can be selected.

Parameter	Unit	SGQ41-10600-4TI	SGQ41-10600-8TI
Wavelength	nm	9000-11000	
Polarization state of input light	-	Linear polarization(//)	
Center frequency	MHz	40.68	
Diffraction efficiency	%	≥90	
Diffraction light separation angle	mrاد	87	
Rise time of light pulses	ns/mm	120	
Optical aperture	mm	4	8
Drive power	W	≤35	≤60

Damage threshold	W/mm ²	≥17
Static transmissivity	%	>95
RF connector	-	SMA female connector
Input impedance	Ω	50
VSWR	-	< 1.3 : 1
Cooling mode	-	Water-cooling
Package	-	TI



Package TI