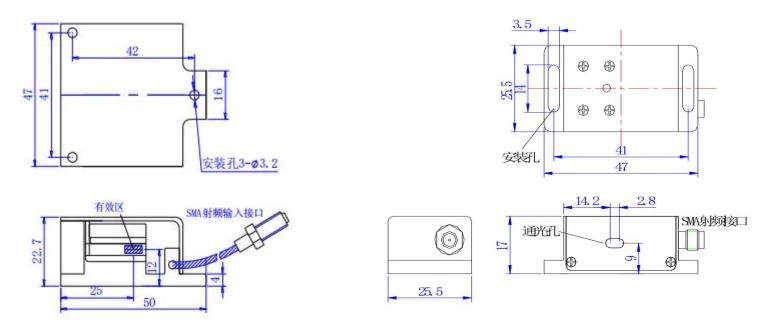


397 nm space AOM series

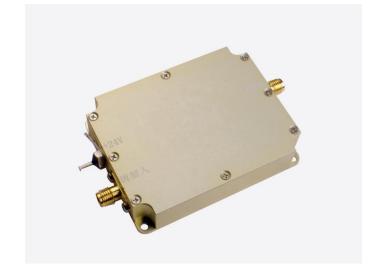
Product Overview:	Acousto optic modulator is a kind of photoelectric product that uses the principle of acousto-optic interaction to modulate the laser intensity and shift the frequency. Its rate control and modulated light intensity far exceed the mechanical shutter. The wavelength range is from the ultraviolet region to the mid infrared region. The use of the recommended supporting driver can achieve the best performance and achieve more application options.				
Performance characteristics	s Fast modulation speed High diffraction efficiency High temperature stability and reliability Small size				
Application area:	Lidar Material processing Laser Doppler system Image processing Cold atomic physics				
Ordering Information:	(This indicator is a typical optical wavelength indicator, and other wavelengths and frequencies can be selected)				

Parameter	Unit	SGT130-397-1QP1-HP	SGT100-397-1TA	SGT200-397-0.5TA	SGT300-397-0.2TA
Wavelength	nm	397 (Typical value)			
Polarization state of input light	-	linear polarization (⊥)	arbitrarily		
Center frequency	MHz	130	100	200	300
Diffraction efficiency	%	≥80	≥85	≥85	≥85
Frequency shift bandwidth	MHz	30	20	50	60
Optical aperture	mm	1	1	0.5	0.2

Diffraction light separation angle	mrad	9	17	19	28.4
Drive power	W	≤4	≤1.5		
Rise time of light pulse	ns/mm	120	160		
Damage threshold	W/mm2	10	0.1		
Static transmissivity	%	95	90		
Extinction ratio	ratio - > 1000:1		00:1		
RF connector	-	SMA			
Input impedance Ω 50		0			
VSWR - <1.3: 1					
Cooling mode	-	Conduction cooling			
Material Science	-	quartz	tellurium oxide		
Package	-	QP1	TA		



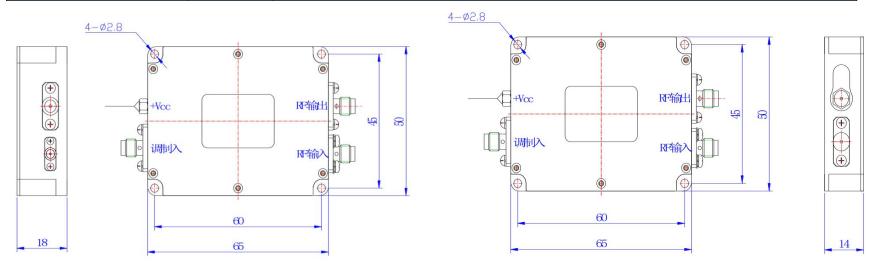
Package QP1 Package TA



Low-power N-type acoustooptic driver

Product Overview:	Product overview: acoustooptic driver is a RF driver that provides supporting functions for acoustooptic device products. It is applicable to acoustooptic modulator and frequency shifter products with driving power less than 3W. The RF signal generated by the driver is used to generate ultrasonic waves in the crystal of the acoustooptic device. The frequency and intensity of the RF signal applied will determine the degree to which the beam is modulated, deflected or tuned. The drive has good heat dissipation, and the use of matched drive will bring better temperature stability.					
Performance characteristics:	• Small size • Fast response time • Low power consumption • High temperature stability and reliability					
Supporting drive	-	Model (SGXXXX-33-N-ab) "X" - use "Y" for frequency shift function, and "T" for modulation function; "XXX" - operating frequency "33" refers to RF output power; "N" indicates the package type; "A" - use "1" for power supply voltage 24V, "2" for power supply voltage 12V; "b" - use "D" for digital TTL modulation, and "A" for analog modulation. SGT130-33-N2-1D SGT100-33-N2-1D SGT200-33-N-1D SGT300-33-N2-1D SGT300-33-N2-1A1 SGT130-33-N2-1A5 SGT130-33-N2-1A5 SGT300-33-N2-1A5				
Specifications of modulation input interface						
Modulated signal input	-	Digital modulation (high level 3.3-5V; low level 0-0.2V@1k Ω) Analog modulation (A1: 0-1V@50 Ω) Analog modulation (A5: 0-5V@1k Ω)				
Interface	-	SMA				

RF output interface specification						
Output signal frequency	MHz	130	100	200	300	
Frequency stability	ppm	100 (1 Special)				
Rise and fall time	ns	<25	<25	<10	<7	
Output signal power	W	<2				
Switching ratio	dB	≥60				
Harmonic suppression ratio dBc >25			25			
Signal output standing wave ratio	-	≤1.3				
Interface	-	SMA				
Complete machine specification						
Maximum power consumption	wer consumption W 10					
Working voltage	Vdc	24±1V (Optional 12±0.5)				
Power interface		Through core capacitance (core wire is connected to positive, solder lug is connected to negative)				
Package	-	N/N2				



Package N2