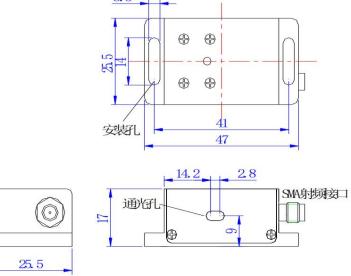


532 nm space AOM series

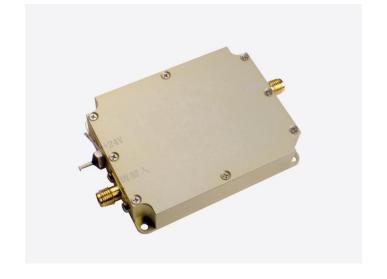
Product Overview:	Acousto optic modulator is a kind of photoelectric product that uses the principle of acousto-optic interaction to modulate the laser intensity and shift the frequency. Its rate control and modulated light intensity far exceed the mechanical shutter. The wavelength range is from the 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	SGT80-532-1.5TA	SGT110-532-1TA	SGT200-532-0.3TA	SGT300-532-0.2TA
Wavelength	nm	500-600			
Polarization state of input light	1	arbitrarily			
Center frequency	MHz	80	110	200	300
Diffraction efficiency	%	≥80	≥85	≥80	≥80
Frequency shift bandwidth	MHz	15	20	50	60

Optical aperture	mm	1.5	1	0.3	0.2	
Diffraction light separation angle	mrad	10.1	13.9	25.3	38	
Drive power	W	≤2				
Rise time of light pulse	ns/mm	160				
Damage threshold	W/mm2	10				
Static transmissivity	%	95				
Extinction ratio	-	> 1000:1				
RF connector	-	SMA				
Input impedance	Ω	50				
VSWR	-	< 1.3: 1				
Cooling mode	-	Conduction cooling				
Material Science	-	Tellurium oxide				
Package	-	3.5				



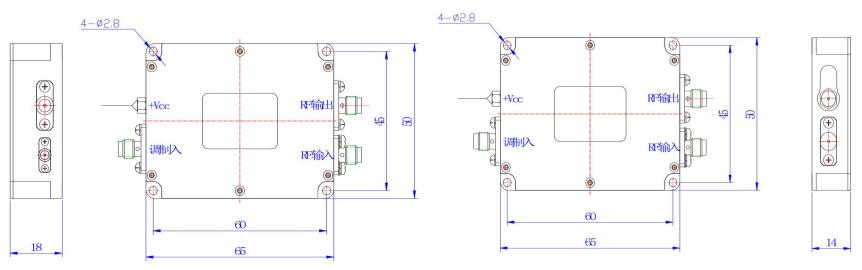
Package TA



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	-	"XXX" - operating freque	nb) "X" - use "Y" for frequency "33" refers to RF outpoltage 24V, "2" for power smodulation, and "A" for SGT110-33-N2-1A1 SGT110-33-N2-1A5	ut power; "N" indicates th supply voltage 12V; "b" - u	e package type; "A" - use	
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	80	110	200	300	
Frequency stability	ppm	100 (1 Special)				
Rise and fall time	ns	<25	<25	<10	<8	
Output signal power	W	<2				
Switching ratio	dB	≥60				
Harmonic suppression ratio	dBc	>25				
Signal output standing wave ratio	1	≤1.3				
Interface	-	SMA				
Complete machine specification						
Maximum power 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