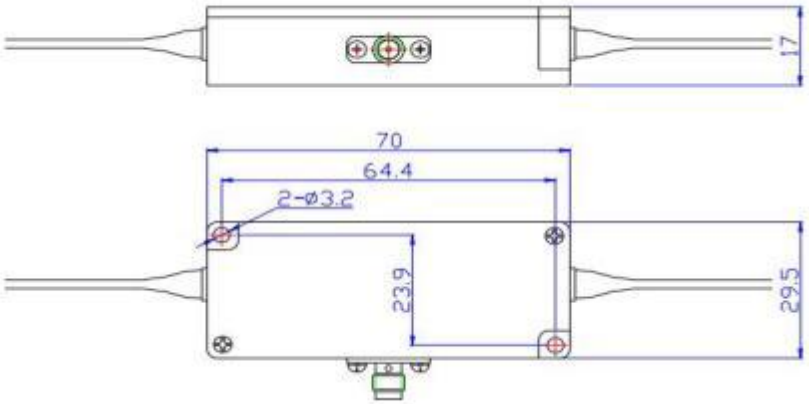
1064nm fiber AOM series

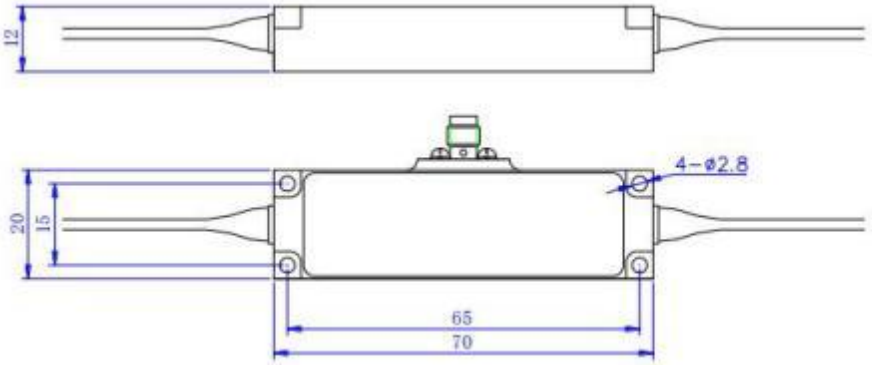
Product Overview:	Acousto optic modulator is a kind of product that uses the principle of acousto-optic interaction to modulate the intensity and shift the frequency of laser. The wavelength range is from visible light to infrared region. It adopts all metal structure design, compact and solid sealed packaging structure, and innovative packaging technology, which ensure high reliability and temperature stability.
Performance characteristics:	●Short response time ●Low insertion loss ●High extinction ratio ●High temperature stability and reliability ●Small size
Application area:	●Q-switched fiber laser ●Laser Doppler coherent application ●Ultra fast laser frequency reduction menu ●Linear frequency modulation
Ordering Information:	(This indicator is a typical optical wavelength indicator, and other wavelengths and frequencies can be selected)

Parameter	Unit	Single mode fiber is represented by "1", and single mode polarization maintaining fiber is represented by "1P".					
		SGTF40-1064-1PFH	SGTF80-1064-1FH SGTF80-1064-1PFH	SGTF150-1064-1FH SGTF150-1064-1PFH	SGTF200-1064-1FH SGTF200-1064-1PFH	SGTF300-1064-1PFH(H)	SGTF400-1064-1PFH(H)
Insertion loss	dB	<2.5	<2.5	<3	<3	<3	<3.5
Rise time	ns	<55	< 50	< 20	<12	<10	<7
Shift frequency	MHz	40	80	150	200	300	400
3dB frequency shift bandwidth	MHz	–	>15	>30	>40	>60	>80
Wavelength	nm	1030-1080					
Optical power	W	≤0.5(Customizable up to 5W)					
On - off extinction ratio	dB	≥50					
Polarization extinction ratio (PM device)	dB	≥20					

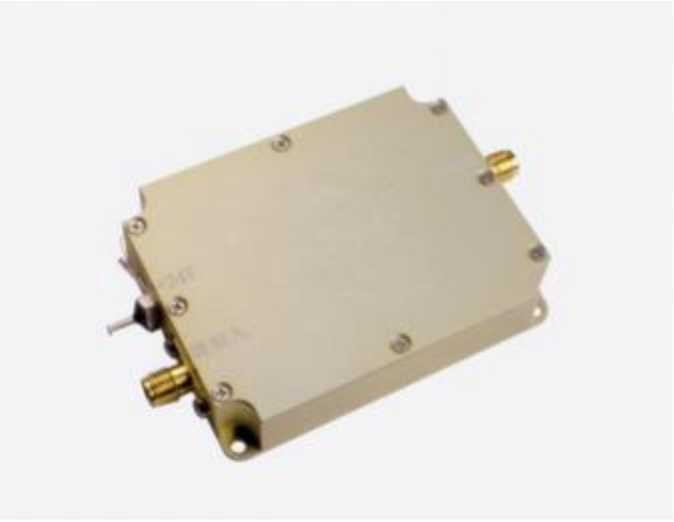
Polarization dependent loss (SM device)	dB	<0.5
Driving power	W	<2
Fiber type	–	PM980、 HI1060 or others
Optical fiber connector	–	FC/APC
RF input joint	–	SMA
Fiber length	m	>1
Input impedance	Ω	50
VSWR	–	<1.3:1
Package	–	FA/FH



Package FA



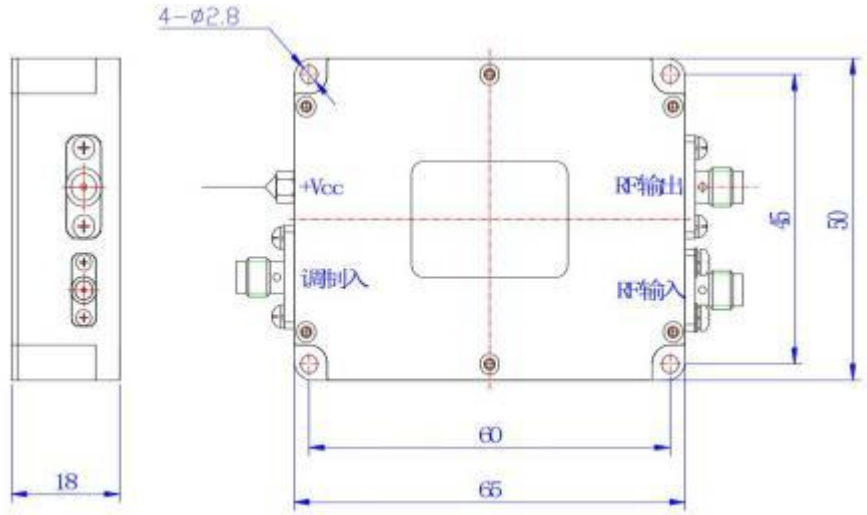
Package FH



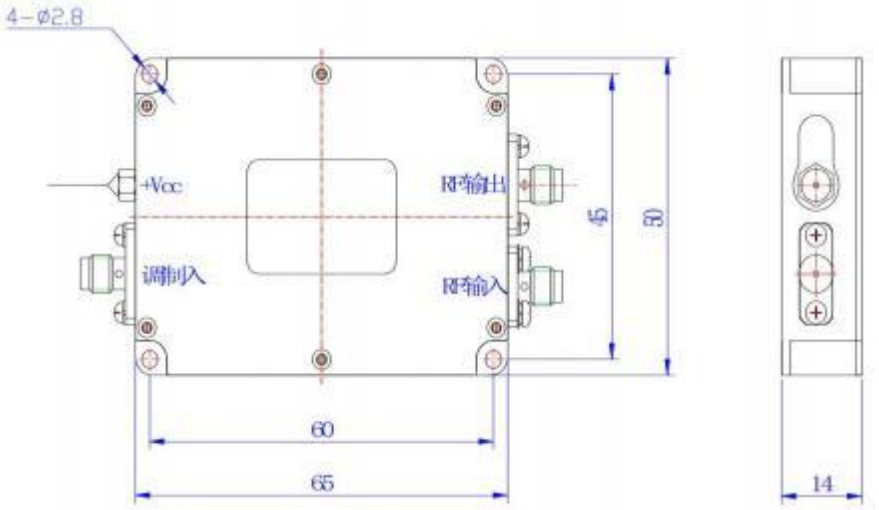
Low-power N-type acoustooptic driver

Product Overview:	Product overview: acoustooptic driver is aRF driver that provides supportingfunctions for acoustooptic device products. It is applicable to acoustooptic modulator and frequency shifter products with driving powerless than 3W. The RF signal generated by the driver is used to generate ultrasonic waves in the crystal ofthe acoustooptic device. The frequency and intensity ofthe 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 ofmatched drive will bringbetter 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.					
		SGT40-33-N2-1D SGT40-33-N2-1A1 SGT40-33-N2-1A5	SGT80-33-N-1D SGT80-33-N-1A1 SGT80-33-N-1A5	SGT150-33-N2-1D SGT150-33-N2-1A1 SGT150-33-N2-1A5	SGT200-33-N-1D SGT200-33-N-1A1 SGT200-33-N-1A5	SGT300-33-N2-1D SGT300-33-N2-1A1 SGT300-33-N2-1A5	SGT400-33-N2-1D SGT400-33-N2-1A1 SGT400-33-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	40	80	150	200	300	400
Frequency stability	ppm	20(1 special)					
Output signal power	W	＜2					
Rise and fall time	ns	<25	<25	<20	<10	<8	<7
Switching ratio	dB	≥60					
Harmonic suppression ratio	dBc	>25					
Signal output standing wave ratio	–	≤1.3					
Interface	–	SMA					
Complete machine specification							
Maximum power consumption	W	10					
Working voltage	Vdc	24±1V（Optional 12±0.5V）					
Power interface	-	Through core capacitance (core wire is connected to positive, solder lug is connected to negative)					
Package	-	N/N2					



Package N



Package N2