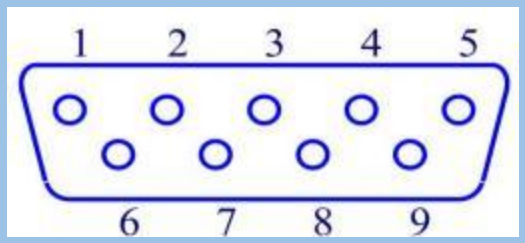
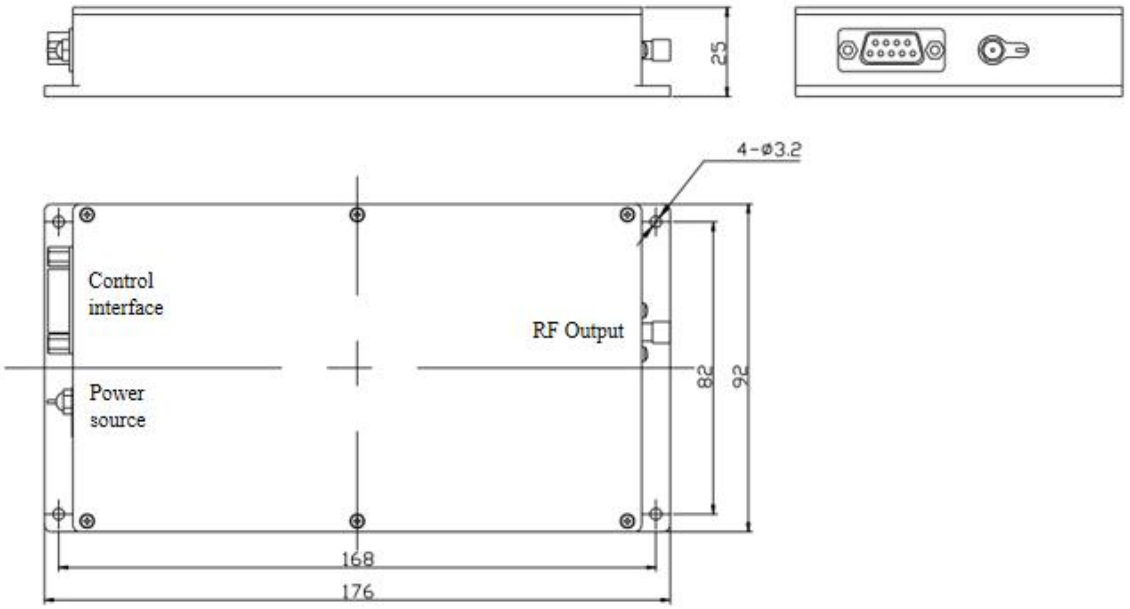
W-type Acousto-optic Q-switch Driver

Product Overview：	The W-type acousto-optic driver is an RF driver that provides supporting functions for acousto-optic Q switch products with driving power less than 70 w. By changing the input conditions of digital modulation and analog modulation, the frequency and width of the pulse and the amplitude of the beam are controlled. Unique manufacturing and packaging technologies enable efficient heat dissipation, reliable operation and optimal performance.
Performance characteristics：	●Fast response time ●High temperature stability and reliability

Parameter	Unit	SGQ27-47-W-3DR-R					SGQ41-46-W-1DR-R			
Control interface specifications										
Interface diagram	—									
Pin	—	1	2	3	4	5	6	7	8	9
Definition	—	Standing wave alarm	-	-	Gnd	Digital modulation	Low power alarm	-	Gnd	Analog modulation
Description	—	Low level alarm	-	-	Gnd	High level 3.3-5v; low level 0-0.2V@1k Ω	Low level alarm	-	Gnd	0-5V@1kΩ
Note	—	The unmarked pins are suspended								
Interface type	—	DB9 male head								
RF output interface specifications										
Output signal frequency	MHz	27.12					40.68			
Frequency stability ratio	ppm	20								
Output signal power	W	≤ 50					≤ 40			
Rising and falling time	ns	< 100								

Switching ratio	dB	≥ 40	
Harmonic suppression ratio	dBc	> 25	
Signal output standing wave ratio	—	≤ 1.3	
Whole machine specifications			
Working mode	—	R05 (First pulse suppression mode)	
working voltage	Vdc	28±1	24±1
Maximum power consumption	W	120	100
Power interface	+Vcc	Through core capacitor (core wire connected to positive, solder pad connected to negative)	



Package W