



# Product specification

## DC13.W1K40 Precision Piezoelectric Power Amplifier

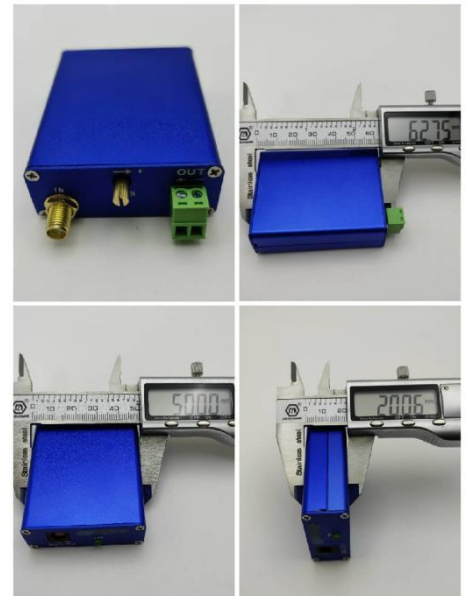
The **DC13.W1K40** is a high-voltage precision piezoelectric power amplifier designed for high-bandwidth, high-dynamic applications, suitable for driving piezoelectric ceramics and various capacitive loads. The product operates on a 12V DC power supply and features adjustable gain to flexibly accommodate different input signal ranges. It incorporates built-in output current protection with automatic recovery under abnormal conditions, enhancing system reliability. The compact design facilitates easy system integration.



**DC13.W1K40**

### Product Features

- 1-channel high-voltage output precision piezoelectric power amplifier
- 12 VDC power supply
- current 10 mA
- No-load bandwidth 40 kHz
- Adjustable gain to accommodate 0–3 V or 0–10 V input range
- Piezoelectric ceramic driver
- Capacitive load driver





# Product specification

## Technical Specifications

Precision Piezoelectric Power Amplifier		DC13.W1K40
supply electricity	Input Voltage	12V/0.3A (9V ~ 15V)
drive	Nominal Analog Input Range	0 ~ 10V
	Nominal Output Voltage Range	0 ~ 150V
	gain	13.5 ~ 42.5
	Rated output current	10mA
	Output current protection limit value	12 ~ 14mA
	Amplifier No-Load Bandwidth	40KHz
	Ripple	30mV <sub>RMS3</sub> (C <sub>L</sub> =0.1uF)
	Rated Output Power	1.3W
Size	L*W*H	63*50*20mm

- This product cannot be used to drive inductive loads; driving inductive loads may cause damage to the product.

- Output protection mode: When the output current reaches the protection limit, the driver will cut off the output current. After a short period, the driver will attempt to restore the output current. If the output short-circuit condition persists, the driver will enter hiccup mode output.