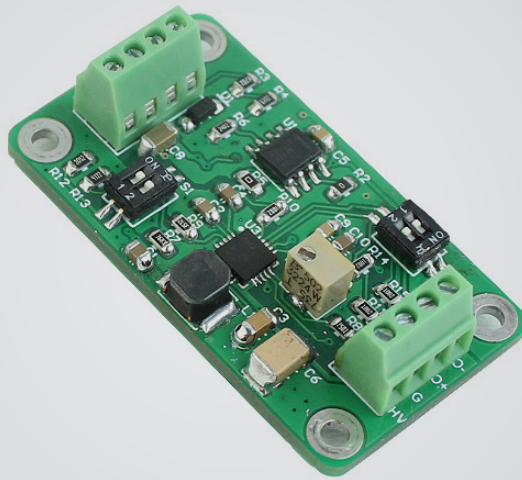


1 Channel | E62.A1K-I

Piezo Amplifier



Characteristics >>

- Single channel
- Board-Type
- Small size and easy-integrated
- Singleboard with 4 unipolar/bipolar voltage output ranges simultaneously

Applications >>

- Driving piezo actuator
- Driving piezo nanopositioning stage
- Driving piezo objective scanner
- Driving piezo shifter
- Driving capacitive load
- Driving piezo scanning platform

Introduction

E62.A1K-I Piezo Controller is a small and linear amplifier, it can be used to drive piezo benders, piezo stack actuators, and other piezo products. It can provide variable gain and bias voltage, switchable voltage range and the selection between unipolar and bipolar inputs and outputs. Its applications include piezo valves, motors, pumps, MEMS, and ultra-low power positioning and operating systems.



CoreMorrow Ltd.

Tel: +86-451-86268790

Fax: +86-451-86267847

Email: info@coremorrow.com

Web: www.coremorrow.com

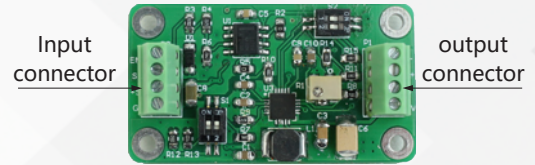
Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin

Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai

Technical Data >>

Type	E62.A1K-I			
Channels	1			
Power supply(V)	+5V DC			
Unipolar voltage output ranges(V)	0~25	0~50	0~75	0~100
Bipolar voltage output ranges(V)	-25~+25	-50~+50	-75~+75	-100~+100
Static power(W)	0.03	0.04	0.06	0.105
Input power(W)	2.56	2.75	2.55	2.95
Ave. current(mA)	25	16	9	6
Bandwidth(kHz)	10	6	4	3
Peak current(mA)	100			
Input voltage range(V)	0~10			
Input impedance(KΩ)	133			
Ripple(mVpp)	12010(load2.2μF)			
Connector	KF128-2.54-4P			
Protection	Overheat protection, Overcurrent and overload protection			
Operating temperature(°C)	-40~+70			
Size (mm)	45×25			
Mass (g)	7.8			

Pin&Function Introduction >>

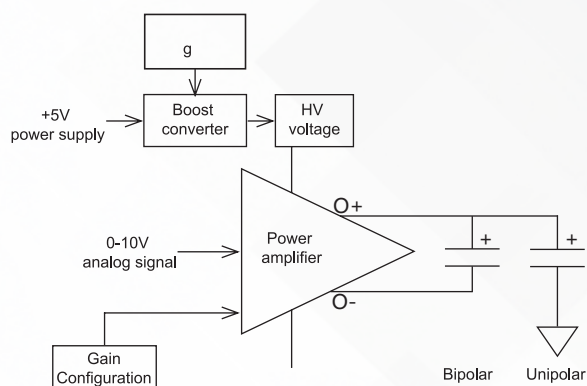


Input connector	
Identifier	Function
EN	Suspended or high level enabled, grounded: off
S	Analog input signal, voltage range 0~10V
+5	Power supply +, +5V power supply
G	Ground, signal reference terminal of +5V power supply and analog input

Output connector	
Identifier	Function
O-	Negative output
O+	Positive output
G	O-, O+, HV public reference terminal
HV	Positive high voltage

Identifier	Function
S1	Dial switch, configuring voltage output range
S2	Dial switch, configure amplifier gain
Rx (x corresponds to different numbers)	Potentiometer that can adjust the output voltage

Functional Block Diagram >>


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