

HIGH VOLTAGE PIEZO DRIVER



FEATURES

Single +24V DC Powered, 0-10V Analog Input High Voltage Amplifier

High Voltage Enable/Disable feature

Screw In Terminal Connectors, No Soldering Needed

Suitable for Capacitive Load like Piezo or Resistive Load

Mounting Slots

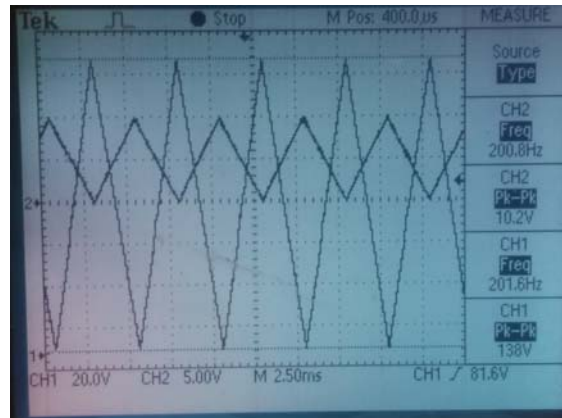
Active Cooling

All RoHS Components

SPECIFICATIONS

Power Supply	+24V
Modulation Input	Analog Input 0-10V, offset adjustable, Max 200Hz, Sine Wave or Triangle Wave within max driving current limit
Voltage Output	0-140Vpk-pk (1.5% max offset)
Max Output Current	112 mA
Cooling	Active, Noise Level 25dB
Operating Temperature	-20 – 35 C
Dimensions	61mm x 147mm x 160mm
Max Load	Within max current load limit, capacitive or resistive
Bandwidth w/o load	25KHz
Enclosure	Aluminum Alloy

Sample Results:



2 uF Capacitive Load with 200Hz Triangle Wave Input



High Voltage Disable ON (pin5=+24V), the output is 24V with 0-10V triangle wave input

Calculate Driving Current:

1. Modulate with Triangle Wave

$$I = 2 * f * C_{load} * V_{pk-pk}$$

For example, the max current for 200Hz triangle modulation on 2uF load, 140Vpk-pk equals:

$$2 * 200 * 2e-6 * 140 = 112mA$$

2. Modulate with Sine Wave

$$I = C_{load} * \pi * f * V_{pk-pk}$$

For example, the max current for 150Hz sine wave modulation on 1uF load, 140Vpk-pk equals:

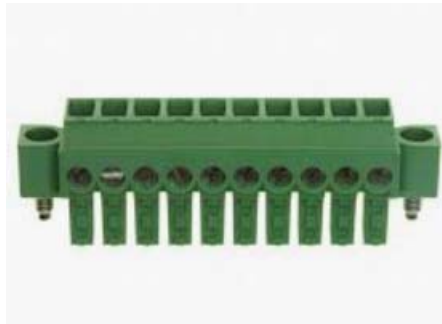
$$1e-6 * 3.14 * 150 * 140 = 66mA$$



PIN OUT SPECIFICATIONS (start from left to right)

PIN1	+24VDC Power Supply, use PIN 2 PIN 3 as power return
PIN4	EN: float or GND DIS: +5V ~ +24V DC
PIN6	Analog Input 0-10V, offset adjustable, Max 200Hz, Sine Wave or Triangle Wave within max driving current limit
PIN5 & PIN 7	GND
PIN 9	HV Out
PIN 10	HV Return
PIN 8	No connection, leave unconnected

Mating connector:



TE 1-284511-0



FCI TJ1031530000G

Quotation on order of large quantity:

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