

MD-90 Two Channel Piezo Amplifier

Description

The MD-90 two channel piezo amplifier is DSM's latest addition to a growing selection of high-quality piezo electronics.

This OEM unit can be used in two primary ways as a:

- 1) 2-channel piezo motor driver complete with quadrature encoder feedback and
- 2) 2-channel piezo device amplifier with analog feedback for both closed and open-loop operation. *



Operation

Built on the proven performance of DSM's VF-90 amplifiers, the MD-90 offers a 2-channel linear amplifier with integrated controller.

Each channel is independently controlled. Preprogrammed waveforms for DSM's motors are included.

Specifications

- Channels: 2 with USB Interface
- Maximum Continuous Current: 90 mA (RMS current into a capacitive load)
- Maximum Peak Current: 90 mA
- Output Voltage: 2 Channels -30/+150V
- Amplifier bandwidth: > 5 kHz (-3 dB)
- Electrical Noise on Output: ~2mVrms
- Operating Voltage: 24VDC input @ 3A
- Short circuit, over-current, and over-temperature protection

Analog

- Two 16-bit and two 12-bit differential inputs
- Two 16-bit DACS
- Configurable input voltages (eight ranges)

Digital

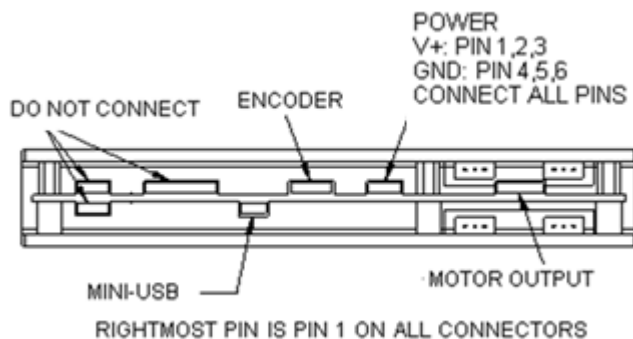
- Differential or single ended encoder inputs 5V 1A max to power encoder
- Eight digital IO lines (can be configured for input or output during manufacturing)

Processors

- Dedicated power supply controller (closed loop voltage control)
- Remote enable and soft start to limit current on power up
- Main controller limits output current for each channel

Physical

- OEM style with board edge connectors
- 1" X 2" X 6" enclosure



* Custom Configuration