

PiezoMaster VP7206

Single Channel High Voltage Amplifiers

Features

150 W Peak Power
 Low Cost
 No HVPS Needed
 Efficient
 Small Size
 Adjustable Gain
 Adjustable Bias
 Adjustable Range



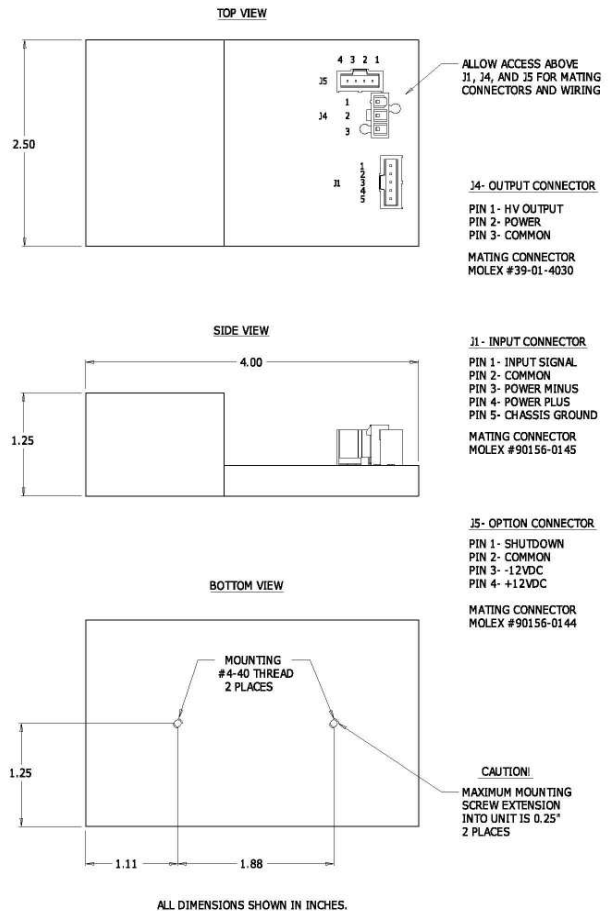
Applications

Micro Positioners	Fiber optics
Nano Positioners	Micro Machining
Mirror Alignment	Micro Testing
Scanning	Inspections
Precision Valves	Tuning
Photonics	Focusing
Microscopes	Embossing
Engraving	Micro Dispensing

The PiezoMaster product line is a family of OEM high voltage amplifiers that combine the amplifier with the high voltage power supply, to offer an extremely low cost piezoelectric actuator controller. These workhorse amplifiers are low enough in cost to be used either in open loop driver applications, or closed loop proportional control applications.

The efficient switch mode design of the PiezoMaster series provides a unique low noise design, in a small package, that can be board or chassis mounted. The PiezoMaster can be located close to the actuator, limiting the accessibility of high voltage.

The PiezoMaster amplifiers have the high peak power to control actuators of all sizes, and there are many features and options available, to match specific system requirements. The strength of the PiezoMaster is its ability to be customized to bring a simple, effective and economical solution to controlling piezoelectric actuators



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PiezoMaster Model VP7206-48H805 Specifications

DC Input Power	48 VDC \pm 20%, maximum 75W average input power
Input Signal	Maximum input signal range of \pm 15 VDC
Input Impedance	33K resistive loading
Input Coupling	DC coupled input to output
Output Polarity	Non inverting output voltage
Output Voltage Range	0 VDC to 800 VDC maximum range
Output Current	Peak output current is 200 mA at 800 VDC
Output Power	Peak power is 150W, average output power is 15W
Output Voltage Gain	Output to input gain is 200
Output Bias Voltage	Bias voltage is 400 VDC with 0 VDC input
Output Slew Rate	400 V per ms with 300 VPP output
Output Frequency Response	1100 Hz for loads up to 0.2MF, 300 VPP output
Output Frequency Response	400 Hz for a 1MF load, 300 VPP output
Output Frequency Response	40 Hz For a 10MF Load, 300 VPP output
Output Impedance	Less than 10 Ohms
Output Noise	Maximum 25 mVRMS with 1MF load
Output Overload Protection	Current limited with short circuit and thermal protection
Efficiency	Static efficiency is approximately 70%
Temperature Range	0°C to 50°C, for full output power
Outline Size	2.50 in. width x 4.00 in. length x 1.25 in. height
Weight	7 Ounces
RoHS Compliance	RoHS-5, fully compliant version available
Construction	Open frame with aluminum chassis and optional cover

Standard Models

<i>MODEL</i>	<i>POWER</i>	<i>RANGE</i>	<i>BIAS</i>	<i>GAIN</i>
VP7206-48H805	48V	800V	400V	200
VP7206-48M605	48V	600V	300V	100
VP7206-48M405	48V	400V	200V	100
VP7206-48L205	48V	200V	100V	50
VP7206-48L105	48V	100V	50V	50
VP7206-24H805	24V	800V	400V	200
VP7206-24M605	24V	600V	300V	100
VP7206-24M405	24V	400V	200V	100
VP7206-24L205	24V	200V	100V	50
VP7206-24L105	24V	100V	50V	50