

E-505

LVPZT Piezo Amplifier Module

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- 200 W Peak Power
- Output Voltage Range -20 to +120 V

The E-505.00 is a piezo driver module for low-voltage PZTs. It can output and sink a peak current of 2000 mA and an average current of 300 mA. The E-505.00 can be operated in two ways:

I. Manual Control:

The output voltage can be set by a 10-turn, DC-offset po-

tentiometer in the range of 0 to 100 Volts.

II. External Control:

Output voltage is controlled by an analog signal applied to the BNC input ranging from -2 to +12 Volts. Multiplying by the gain factor of 10, an output voltage range of -20 to +120 Volts results. The DC-offset

Ordering Information

E-505.00

LVPZT Amplifier Module,
-20 to +120 V

E-505.00S

Modified E-505.00 with one Fixed
Voltage of +100 V for tip/tilt
Systems

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potentiometer adds a DC bias to the input, allowing continuous shifting of the input range between -2 V to +12 V and -12 V to +2 V (see page 6-52).

For computer-controlled operation, an E-516.I3, 20-bit DAC interface/display module can be used (requires E-500/ E-501 chassis). See graph for frequency response with selected LVPZTs.

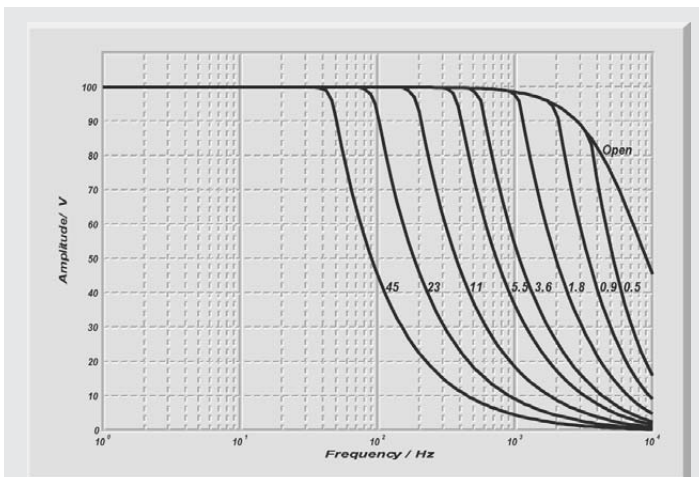
Notes

E-505.00 amplifier is not a stand-alone device. It is designed to work in the E-500/ E-501 chassis (p. 6-18) with integrated power supply. A 32-pin connector is used to interface with the E-500/E-501 chassis.

Technical Data

Models	E-505.00*
Function	Power amplifier
Channels	1
Maximum output power	200 W (see page 6-52)
Average output power	30 W
Peak output current <5 ms	2000 mA
Average output current >5 ms	300 mA
Current limitation	Short-circuit proof
Voltage gain	10 ±0.1
Polarity	Positive
Control input voltage	-2 to +12 V
Output voltage	-20 to +120 V
DC-offset setting	0 to 100 V at output with 10-turn pot.
Input impedance	1 MΩ / 1 nF
Control input sockets	BNC
PZT voltage output socket:	LEMO ERA.00.250.CTL
Dimensions	One 14T slot wide, 3H high
Weight	0.9 kg
Operating voltage	Requires E-530/E-531 power supply (E-500/E-501 system)

* E-505.00S with one fixed voltage of +100 V



E-505, frequency response with various PZT loads.
Values shown are capacitance in μF , measured in actual PZT.

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