

E-505

LVPZT Amplifier Module

Ordering Information

E-505.00
LVPZT Amplifier Module,
-20 to +120 V
Custom Designs
for Volume Buyers



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

The E-505.00 is an amplifier 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 Operation: The output voltage can be set by a 10-turn, DC-offset potentiometer in the range of 0 to 100 Volts.

II. External Operation: 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 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 6-40).

For computer-controlled operation, an E-516.13, 20-bit DAC interface/display module can be used (requires E-500/ E-501 chassis). See graph for frequency response with selected LVPZTs.

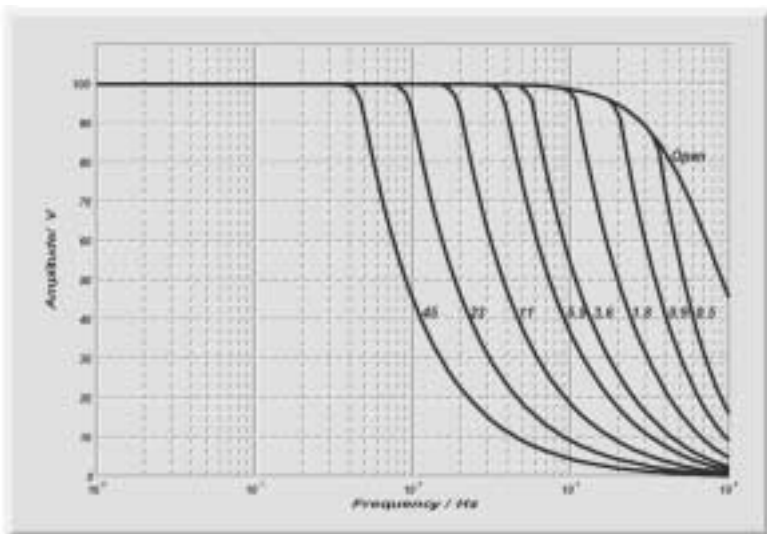
Notes

E-505.00 amplifier is not a stand-alone device. It is designed to work in the E-500/E-501 chassis (p. 6-20) with integrated power supply. A 32-pin connector is used to interface with the E-500/E-501 chassis.

E-505.00

Technical Data

Models	E-505.00
Function	Power amplifier
Channels	1
Maximum output power	200 W (s. page 6-40)
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	100 kΩ
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, frequency response with various PZT loads.
Values shown are capacitance in μF, measured in actual PZT.