



PD-206-150 is a linear amplifier that outputs 150 V pp. This amplifier is optimum for driving various piezoelectric actuators.

PD-206-150P: 0 to 150 V,

PD-206-150B: ±75V, bipolar

A protection circuit is equipped for protecting from inrush current.

The power supply is built in a compact body, it operates with a low voltage single power supply, and is low noise.

▼ Absolute maximum ratings

Supply voltage (Vdd)	+30 V
Signal Input Voltage	±15 V

▼ Ratings

Input voltage range	150P: 0 to +10 V, 150B: ±5 V
Input impedance	10 kΩ (typ.)
Output impedance	100 Ω
Gain	×15 ± 3 %
Maximum output voltage	150P: +150 V, 150B: ±75 V
Maximum output current	15 mA (continuous) 40 mA (≤ 10 ms)
Rise / fall time	≤ 1ms (typ.) 10 to 90% of output voltage:100Vp-p, Load:1μF
Frequency characteristic	DC to 100 Hz Output voltage:1V, -3 dB, Load:16 μF
Output voltage noise	≤ 5 mVrms(BW: 10 kHz)
Equivalent input offset voltage	≤ ±10 mV

▼ Power supply

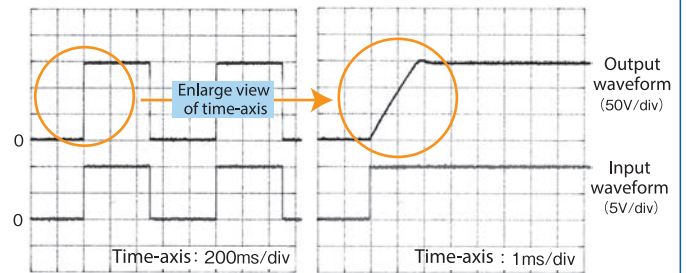
Operating voltage range	24 V±4 V
Supply current	≤100 mA (with no signal), 300 mA (Vdd:24V, Output:150Vp-p 3.3Hz square-wave, Load:16μF)

▼ General

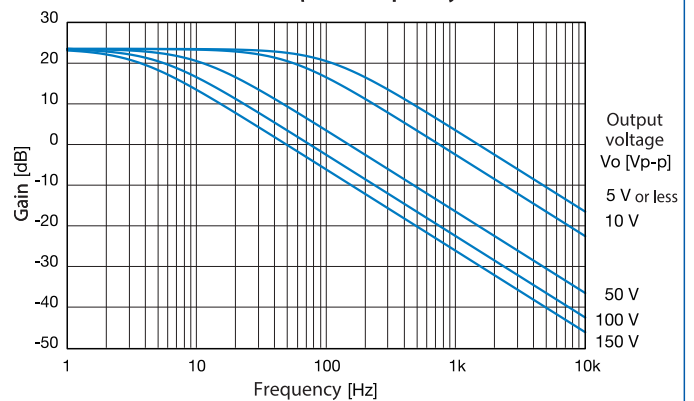
Specified temperature	23 °C ± 5 °C
Operating environment	0 to 50 °C, 10 % RH to 90 % RH
Storage environment	-10 °C to 60 °C, 10 % RH to 80 % RH
Thermal shut down	Power off at the internal temperature of 70 °C ±5 °C. recovered automatically.
Withstanding voltage	DC 100 V (Between INPUT_COM, OUTPUT_COM and Vdd_COM) DC 100 V (Between CASE and INPUT_COM, OUTPUT_COM, Vdd_COM)
Connector	64 pins DIN connector(XC5A-6422, OMRON Corporation)
Dimensions(mm)	120×62×24.6 (not including protrusions)
Weight	Approx. 150 g
Accessories	Instruction manual

Characteristics

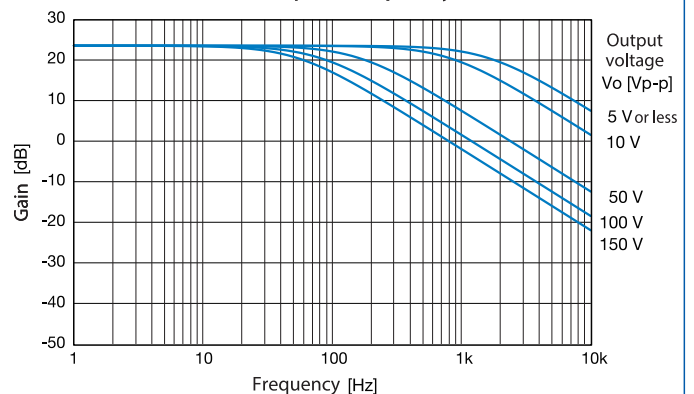
Step Response (PD-206-150P) f=1Hz, CL(C-load)=1 μF



Load (CL=16 μF) - Frequency



Load (CL=1 μF) - Frequency



Block Diagram

