



PID-01

HIGH-SPEED SERVO CONTROLLER

PID-01 is a high-speed servo controller that is digitally controlled using an integrated touchscreen. It provides Proportional, simple Integrator and double Integrator functions. It features ultralow voltage noise, more than 200 dB open-loop gain, and a bandwidth of > 30 MHz.



SPECIFICATIONS

- Number of outputs: 1 + one monitor
- Number of inputs : 1 + one monitor
- Input voltage noise: $5 \text{ nV}/\sqrt{\text{Hz}}$
- Output impedance: 50Ω
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- Input Voltage range max: $-5 \text{ V} / +5 \text{ V}$
- Output voltage range max: $-4.5 \text{ V} / +4.5 \text{ V}$
- Output/input connectors: SMA female
- Control bandwidth: > 30 MHz
- Output offset range: $-2 \text{ V} / +2 \text{ V}$
- Product dimensions: $155 \times 150 \times 112 \text{ mm}^3$
- Product weight: approx. 1.5 kg
- Proportional Gain:
OFF, from - 28 dB to 23 dB (0.2 dB increments)
- Simple Integrator:
OFF, from 100 Hz to 10 MHz (16 settings)
- Double Integrator:
OFF, from 100 mHz to 1 MHz (16 settings)

PERFORMANCES

Typical functional diagram of the module:

