



PRODUCT



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.

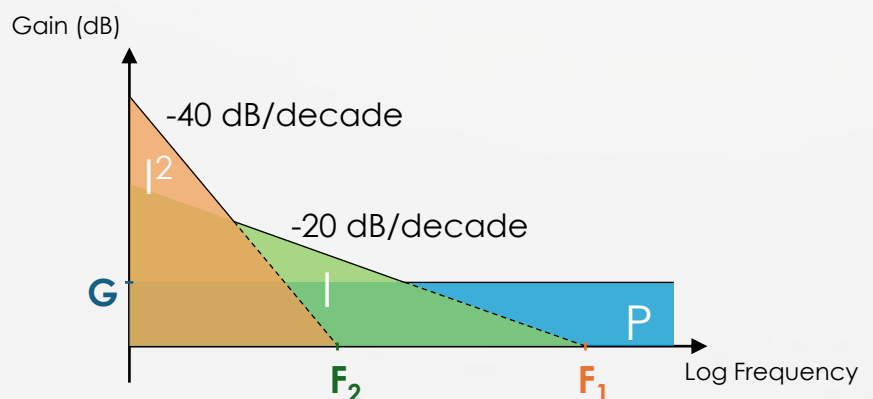


SPECIFICATIONS

- Number of outputs: 1 + one monitor
- Number of inputs : 1 + one monitor
- Input voltage noise: 5 nV/ $\sqrt{\text{Hz}}$
- Output impedance: 50 Ω
- Input impedance: 50 Ω
- Input Voltage range max: -5 V / +5 V
- Output voltage range max: -4.5 V / +4.5 V
- Output/input connectors: SMA female
- Control bandwidth: > 30 MHz
- Output offset range: - 2 V / + 2 V
- Product dimensions: 155 x 150 x 112 mm³
- 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:





Schematic Diagram

