

Current Sensor CA55-P

The CA55-P utilizes advanced isolation technology to measure DC, AC, and pulsed currents across high & low voltage circuits. With fast response, excellent accuracy, low nonlinearity, minimal temperature drift, and wide bandwidth, it is ideal for applications in DC/AC speed control, battery-powered systems, UPS, and switched-mode power supplies.

Parameters

Electrical Specifications

- Rated Measurement: 50A·t
- Measurement Range: 0~±70A·t
- Load Resistance:

Supply Voltage	Measured Current	RM _{Min}	RM _{Max}
±12V	±50A	10Ω	100Ω
	±70A	10Ω	50Ω
±15V	±50A	50Ω	160Ω
	±70A	50Ω	90Ω

- Turns Ratio: 1:1000
- Rated Output Current: 50mA
- Supply Voltage: ±12~±15V
- Maximum Supply Current: 10mA(@±15V) + I_s
- Dielectric Strength: 2500VAC

Accuracy & Dynamic Performance

- Accuracy: $\pm 0.7\%$
- Non-Linearity: $\pm 0.2\%$
- Zero Offset: $\leq \pm 0.2\text{mA}$
- Temperature Drift: $\leq \pm 0.5\text{mA}$
- Response Time: $\leq 1\mu\text{s}$
- di/dt : $> 200\text{A}/1\mu\text{s}$
- Bandwidth: DC...200KHz

General Data

- Operating Temperature: $0^\circ\text{C} \sim +70^\circ\text{C}$
- Storage Temperature: $-25^\circ\text{C} \sim +85^\circ\text{C}$
- Weight: $\leq 18\text{g}$

Outline & Interface

