

Voltage Sensor CVL-1000

The CVL-1000 voltage sensor utilizes magnetic compensation to achieve galvanic isolation measurement of DC, AC, or pulsed voltages. The output signal is directly proportional to the measured voltage. With fast response, high accuracy, excellent linearity, and strong stability, it is ideal for precision monitoring applications.

Parameters

Electrical Specifications

- Rated Measurement Current: 1000Vrms
- Measurement Range: 0~±1500VDC
- Rated Output Current: 50mArms
- Supply Voltage: ±12~±24VDC (±10%)
- Secondary Current Consumption: 30mA + output current
- Dielectric Strength: 7kVrms/50Hz/1min (between primary and secondary circuits)
- Load Resistance:

$R_{M_{Min}}$	$R_{M_{Max}}$
0Ω	133Ω

Accuracy & Dynamic Performance

- Accuracy: ±0.5%@25°C
±1%@-40°C~+85°C
- Non-Linearity: ±0.2%
- Zero Offset: ≤±0.15mA
- Response Time: ≤60μs
- Bandwidth: DC...13kHz

General Data

- Operating Temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Storage Temperature: $-50^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- UL94-V0 flame-retardant plastic housing
- Compliant with EN50155 Standard
- Primary/Secondary Terminal Type: M5 screw terminals
- Recommended Tightening Torque: 2.2 N·m
- Weight: $\leq 450\text{g}$

Outline & Interface

