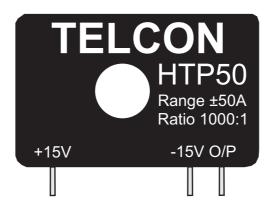


Speciality Magnetic Components QUALIFIED to ISO 9001:2008

PCB Mounting Hall Effect Current Transformer Type HTP50



The HTP50 is a closed loop Hall Effect Current Transformer suitable for measuring currents up to 50A. The product provides an output current into an external load resistance.

Features

- High Accuracy
- 3 kV Proof Stress
- Fast Response
- · Designed in Quality

Applications

- Variable Speed Drives
- UPS Systems
- D.C. Power Supplies
- Low Frequency Current Measurement

Benefits

- · Galvanic Isolation
- Ease of assembly
- High Reliability
- Non Invasive
- Overcurrent Protection
- Robotics
- Frequency Inverters
- Power Factor Monitoring

TECHNICAL DATA

Nominal Primary Current

Turns Ratio

Nominal Power Supply

±15V ±5% **Power Supply Current** 16mA per rail + output current

Minimum Load Resistance **Operating Temperature Range** Storage Temperature Range

75 Ω 0 to +70°C

-25°C to +85°C

50A

1000:1

SPECIFICATION

Linearity 0.1% of nominal primary current.

Limit of Linearity ± 80A peak value

Overall Accuracy 0.5% of nominal primary current Output Zero Adjustment <±200µA at primary current =0A

Zero Offset/Temperature <5µA/°C Zero Offset/Supply Variation <5µA/V Coil resistance 52 Ω

Bandwidth (-1dB) dc to 200kHz min.

di/dt following >200A/µs **Delay Time** $0.1 \mu S$ dV/dt Immunity 10kV/µs

Proof Stress Voltage 3kV a.c., rms, 50Hz for 1 minute, bore to output terminals

GENERAL DATA

Weight 17g nominal

Housing Modified Polyphenylene Oxide Mounting Direct mounting to PCB by 3 pins

Signal Sense Positive output obtained when current flows in direction of arrow

Conductor Temperature The temperature of the primary conductor should not exceed

Conductor Position Optimum dynamic performance is achieved with a single

conductor filling the bore

DIMENSIONS

