查询HTP50NPV供应商

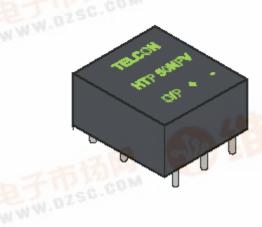
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Speciality Magnetic Components

QUALIFIED to ISO STANDARD

PCB Mounting Hall Effect Current Transformer Type HTP50NPV



The HTP50NPV is a compact, multiple primary turn closed loop Hall Effect Current Transformer suitable for measuring currents up to 50A. It is designed for those applications where connection to the primary circuit is made directly on the printed circuit board.

The product provides an output current, galvanically isolated from the primary conductor into an external load resistance. All contacts, including the primary are designed for PCB mounting.

Features

- High Accuracy
- 2.5 kV Proof Stress
- Fast Response
- All Contacts via PCB
- Designed in Quality

Applications

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

Benefits

- Small PCB Footprint
- Galvanic Isolation
- Ease of assembly
- High Reliability
- Wide Dynamic Range
- Overcurrent Protection
- Robotics
- Frequency Inverters
- Power Factor Monitoring



TECHNICAL DATA

Nominal Primary Current 50A Turns Ratio 1000:1 **Nominal Power Supply**

±15V ±5% **Power Supply Current** 14mA per rail + output current

Minimum Load Resistance 90Ω **Operating Temperature Range** 0 to +70°C Storage Temperature Range -25°C to +85°C

SPECIFICATION

Linearity 0.1% of nominal primary current.

Limit of Linearity ± 75A peak value

0.5% of nominal primary current **Overall Accuracy Output Offset Current** <±125μA at primary current =0A Output Offset Current After Overload <±250μA at primary current =0A

Zero Offset/Temperature <5µA/°C Zero Offset/Supply Variation <5µA/V

Coil resistance 52 Ω

Bandwidth (-1dB) dc to 150kHz min.

di/dt following >100A/µs **Delay Time** $0.1 \mu S$ dV/dt Immunity 10kV/µs

Proof Stress Voltage 2.5kV a.c., rms, 50Hz for 1 minute, Primary pins to output

terminals

GENERAL DATA

Weight 26g nominal

Housing Modified Polyphenylene Oxide Mounting Direct mounting to PCB by 11 pins

Primary Conductor Material Copper Tin Plated

Signal Sense A positive output is obtained when current flows in the direction

of the arrow shown on the diagram below

DIMENSIONS

