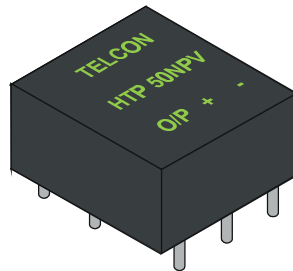




Speciality Magnetic Components

QUALIFIED TO ISO 9002

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 into an external load resistance which is galvanically isolated from the primary conductor. All contacts, including the primary are designed for PCB mounting.

Features

- High Accuracy
- 2.5kV Proof Stress
- Fast Response
- All Contacts Via PCB
- Designed In Quality

Benefits

- Small PCB Footprint
- Galvanic Isolation
- Ease Of Assembly
- High Reliability
- Wide Dynamic Range

Applications

- Variable Speed Drives
- UPS Systems
- D.C Power Supplies
- Low Frequency Current Measurement
- Overcurrent Protection
- Robotics
- Frequency Inverters
- Power Factor Monitoring

As part of our policy of continuous product improvement we reserve the right to make modifications to this product without prior notice.

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TECHNICAL DATA

Nominal Primary Current	50A
Turns Ratio	1000:1
Nominal Power Supply	±15V ±5%
Supply Current	14mA per rail + output current
Load Resistance	90 Ω
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
Overall accuracy	0.5% of nominal primary current
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	52Ω
Bandwidth (-1dB)	dc to 150kHz
di/dt following	>100A/µs
Delay time	0.1µS
dV/dt Immunity	10kV/µs
Proof Stress Voltage	2.5kV a.c., r.m.s, 50Hz for 1minute, 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

