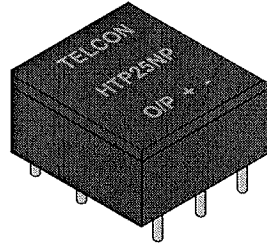




Speciality Magnetic Components

QUALIFIED TO ISO 9002

## PCB Mounting Hall Effect Current Transformer Type HTP25NP



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The HTP25NP is a closed loop Hall Effect Current Transformer suitable for measuring currents up to 25A. 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.

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### 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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Nominal Primary Current	25A
Turns Ratio	1000:1
Nominal Power Supply	±15V ±5%
Supply Current	14mA per rail + output current
Load Resistance	100 Ω
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-25°C to +85°C

Linearity	0.1% of nominal primary current
Limit of linearity	±36A peak
Overall accuracy	0.5% of nominal primary current
Output Offset Current	<±100μA 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	80Ω
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

Weight	24g nominal
Housing	Modified Polyphenylene Oxide
Mounting	Direct mounting to PCB by 13 pins
Primary conductor material	Copper Tin Plated
Signal Sense	A positive output is obtained when current flows from pins 1-5 to pins 6-10

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