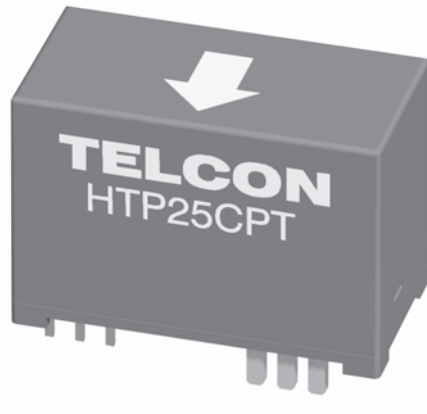


Miniature Hall Effect Current Transformer Type HTP25CPT



The HTP25CPT is a closed loop Hall Effect Current Transformer suitable for measuring currents up to 25A. 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.

The HTP25CPT complements the existing HTP range giving comparable accuracy in a substantially smaller volume, and a smaller footprint. There are three separate primary conductors which can be connected in parallel to give the full rated current or in series to give a lower rated current without sacrificing relative offset performance.

Features

- Miniature Package
- 5 kV Proof Stress
- Fast Response
- Contacts via PCB
- Designed in Quality

Benefits

- Small PCB Footprint
- Galvanic Isolation
- High Accuracy
- Ease of assembly
- High Reliability

Applications

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

TECHNICAL DATA

Nominal Primary Current	25A
Measurement Range	±60A peak
Turns Ratio	1000:1
Nominal Power Supply	±15V ±5%
Power Supply Current	16mA per rail + output current
Minimum Load Resistance	0 to 150 Ω
Operating Temperature Range	0 to +85°C
Storage Temperature Range	-25°C to +90°C

SPECIFICATION

Linearity	0.1% of nominal primary current.
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	<3µA/°C
Zero Offset/Supply Variation	<2µA/V
Coil resistance at 25°C	40 Ω
Primary Conductor Resistance (each conductor)	300µΩ
Bandwidth (-1dB)	dc to 70kHz
di/dt following	>50A/µs
Delay Time	0.4µs
dV/dt Immunity	10kV/µs
Proof Stress Voltage	5kV a.c., rms, 50Hz for 1 minute
Creepage Distance	7.4mm
Clearance Distance	7.4mm

GENERAL DATA

Weight	11.4g nominal
Housing	PBT 15% Glass Filled Flammability Rating V0, CTI Rating >140
Mounting	Direct mounting to PCB by 9 pins
Primary Conductor Material	Copper Tin Plated
Signal Sense	Positive output obtained when current flows in direction of arrow

DIMENSIONS

