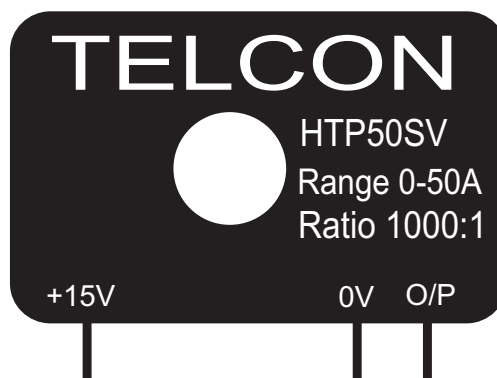




Speciality Magnetic Components
QUALIFIED to ISO 9001:2008

PCB Mounting Hall Effect Current Transformer Type HTP50SV



The HTP50SV is a closed loop Hall Effect Current Transformer suitable for measuring unidirectional currents up to 50A. The product requires a single +15V power supply rail and provides an output current into an external load resistance. The units are PCB mounting and pin compatible with the existing HTP range. The requirement for a single supply voltage gives cost savings in applications where current to be measured is unidirectional.

Features

- Single Supply Voltage
- High Accuracy
- 3 kV Proof Stress
- Fast Response
- Designed in Quality
- Competitively Priced

Benefits

- Supply Economy
- Galvanic Isolation
- Wide Dynamic Range
- Semiconductor protection
- Non Invasive
- 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	50A
Turns Ratio	1000:1
Nominal Power Supply	+15V \pm 5%
Power Supply Current	16mA per rail + output current
Minimum Load Resistance	50 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	\pm 80A peak value
Overall Accuracy	0.5% of nominal primary current
Output Zero Adjustment	$<\pm$ 200 μ A at primary current = +0.25A dc
Zero Offset/Temperature	$<$ 5 μ A/°C
Zero Offset/Supply Variation	$<$ 5 μ A/V
Coil resistance	52 Ω
Bandwidth (-1dB)	dc to 200kHz min.
di/dt following	$>$ 85A/ μ s
Delay Time	0.12 μ s
dV/dt Immunity	10kV/ μ s
Proof Stress Voltage	3kV a.c., rms, 50Hz for 1 minute

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 100°C
Conductor Position	Optimum dynamic performance is achieved with a single conductor filling the bore

DIMENSIONS

