Speciality Magnetic Components
QUALIFIED to ISO 9001:2008

PCB Mounting Hall Effect Current Transformer Type HTP100

The HTP100 is a closed loop Hall Effect Current Transformer suitable for measuring currents up to 100A. The product provides an output current, galvanically isolated from the primary conductor into an external load resistance.

Features
- High Accuracy
- 3 kV Proof Stress
- Fast Response
- Designed in Quality

Benefits
- Galvanic Isolation
- Ease of assembly
- High Reliability
- Non Invasive

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	100A
Turns Ratio	1000:1
Nominal Power Supply	±15V ±5%
Power Supply Current	16mA per rail + output current
Minimum Load Resistance	45 Ω
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-25°C to +85°C

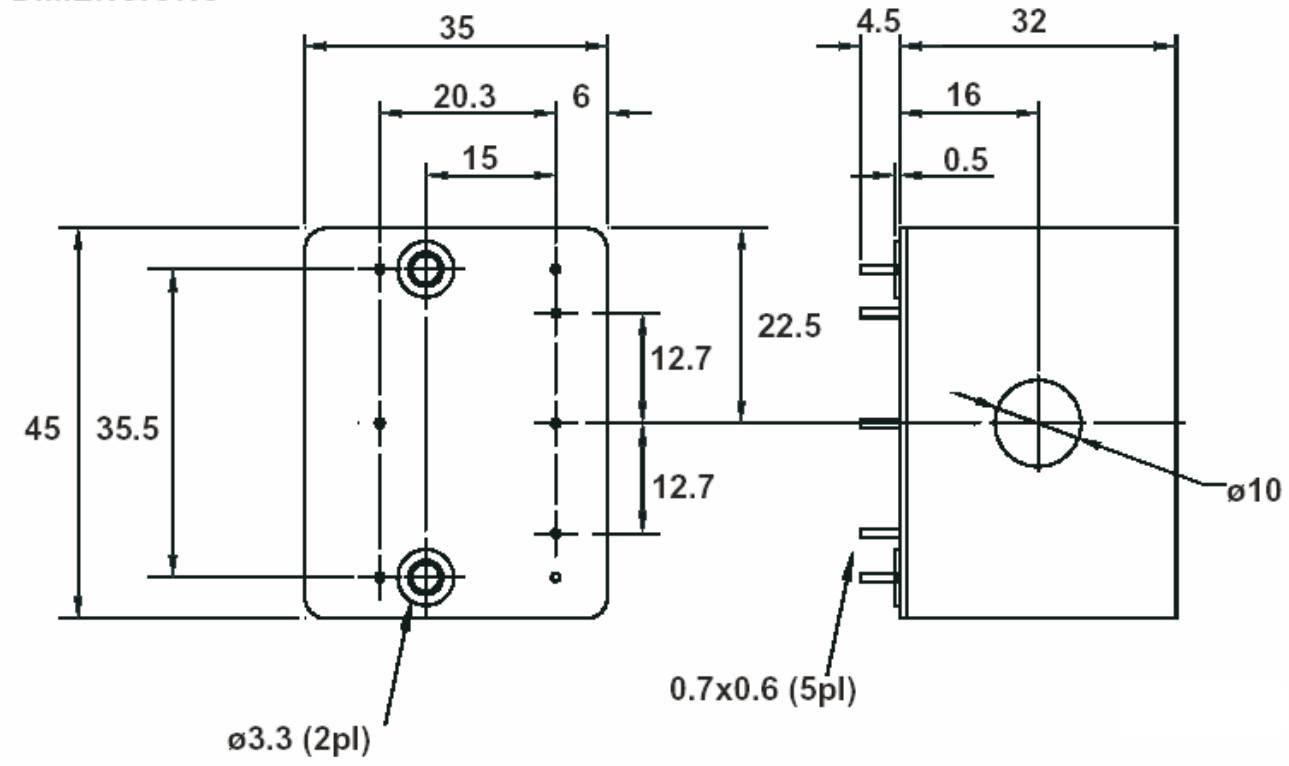
SPECIFICATION

Linearity	0.1% of nominal primary current.
Limit of Linearity	± 180A peak value
Overall Accuracy	0.5% of nominal primary current
Output Zero Adjustment	<±500µA at primary current =0A
Zero Offset/Temperature	<5µA/°C
Zero Offset/Supply Variation	<5µA/V
Coil resistance	20 Ω
Bandwidth (-1dB)	dc to 100kHz min.
di/dt following	>150A/µs
Delay Time	0.1µS
dV/dt Immunity	10kV/µs
Proof Stress Voltage	3kV a.c., rms, 50Hz for 1 minute, bore to output terminals

GENERAL DATA

Weight	45g nominal
Housing	Modified Polyphenylene Oxide
Mounting	Direct mounting to PCB by 5 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



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