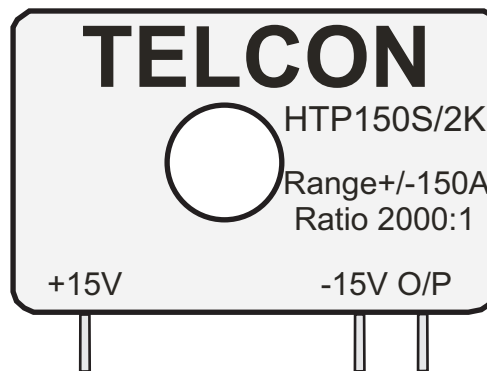




Speciality Magnetic Components  
QUALIFIED to ISO 9001:2008

## Hall Effect Current Transformer Type HTP150S/2K



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The HTP150S/2K is a closed loop Hall Effect Current Transformer suitable for measuring currents up to 150A. The product provides an output current into an external load resistance.

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### Features

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

### Benefits

- Galvanic Isolation
- Wide Dynamic Range
- 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	150A
Turns Ratio	2000:1
Nominal Power Supply	$\pm 15V \pm 5\%$
Power Supply Current	16mA per rail + output current
Minimum Load Resistance	10 to 40 $\Omega$ ( see Note 1 )
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-25°C to +85°C

## SPECIFICATION

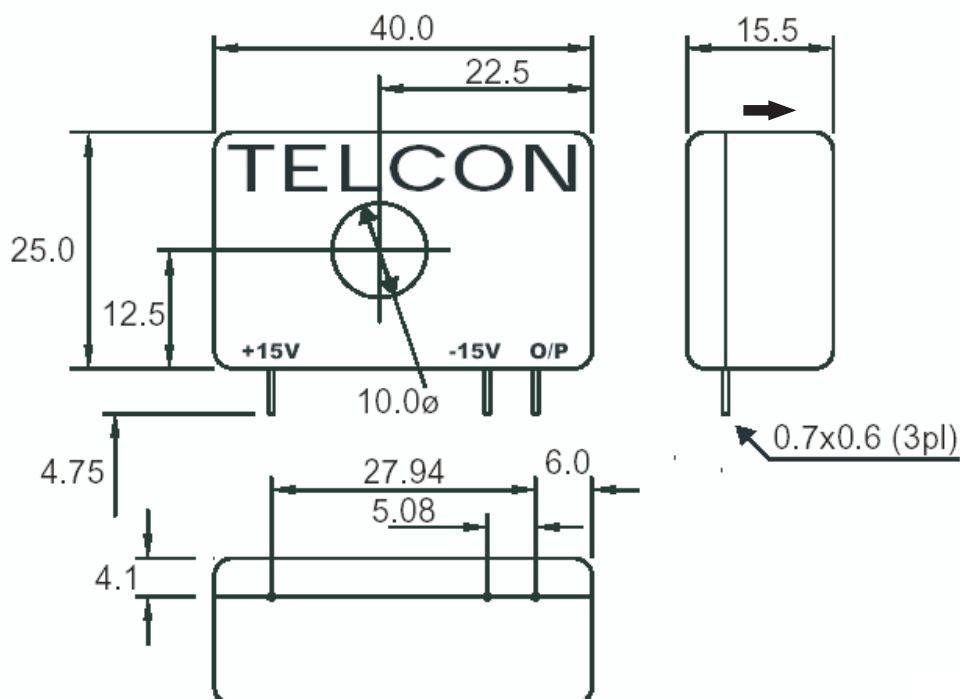
Linearity	0.1% of nominal primary current.
Limit of Linearity	$\pm 212A$ peak value
Overall Accuracy	0.5% of nominal primary current
Output Zero Adjustment	$< \pm 200\mu A$ at primary current = 0A
Zero Offset/Temperature	$< 5\mu A/^{\circ}C$
Zero Offset/Supply Variation	$< 5\mu A/V$
Coil resistance	77 $\Omega$
Bandwidth (-1dB)	dc to 100kHz min.
di/dt following	$> 150A/\mu s$
Delay Time	0.1 $\mu s$
dV/dt Immunity	10kV/ $\mu s$
Proof Stress Voltage	3kV a.c., rms, 50Hz for 1 minute

## GENERAL DATA

Weight	18g 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

Note 1: The maximum load resistance is set by the limit to the voltage compliance of the output under conditions of 150A r.m.s a.c. primary current, minimum supply voltage and maximum ambient temperature. The minimum load resistance is set by the power dissipation limit of the output stage under conditions of 150A d.c., maximum supply voltage and maximum ambient temperature.

## DIMENSIONS



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