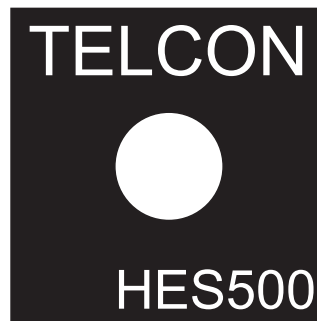




Speciality Magnetic Components
QUALIFIED to ISO 9001:2008

PCB Mounting Hall Effect Current Transformers
Detector Coil Assembly Type HES200HR and HES500HR



The HES series of Hall Element and coil assemblies enable the implementation of a full Hall Effect Current Transformer by the addition of the requisite electronic circuitry, suitable for measuring currents up to 500A. They are supplied as a free standing component, enabling the user to configure a closed-loop Hall Effect current transformer to their own specification.

Features

- High Accuracy
- Fast Response
- All Contacts via PCB
- Designed in Quality

Benefits

- Galvanic Isolation
- Ease of Assembly
- Non Invasive
- 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

TECHNICAL DATA	HES200HR	HES500HR
Nominal Primary Current	200A	500A
Turns Ratio	1000:1	2000:1
Nominal Power Supply	$\pm 15V \pm 5\%$	
Minimum Load Resistance	20 Ω	12 Ω
Operating Temperature Range	0 to +70°C	
Storage Temperature Range	-25°C to +85°C	
SPECIFICATION	HES200HR	HES500HR
Linearity	0.1% of nominal primary current	
Limit of linearity	$\pm 200A$ peak	$\pm 500A$ peak
Overall accuracy	0.5% of nominal primary current	
Zero Offset/Temperature	$< 5\mu A/^{\circ}C$	
Zero Offset/Supply Variation	$< 5\mu A/V$	
Coil Resistance	16 Ω	18 Ω
Bandwidth (-1dB)	Dc to 100kHz	Dc to 70kHz
Di/dt following	$> 100A/\mu s$	$> 50A/\mu s$
Delay time	1 μs	1 μs
dV/dt Immunity	10kV/ μs	
GENERAL DATA	HES200HR	HES500HR
Weight	47g nominal	94g nominal
Housing	Modified Polyphenylene Oxide	
Mounting	Direct mounting to PCB by 6 pins	Direct mounting to PCB by 8 pins
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	
Signal Sense	Positive output for primary in direction of arrow on box	Positive output for primary down through board

DIMENSIONS

Pin designation as viewed from below

