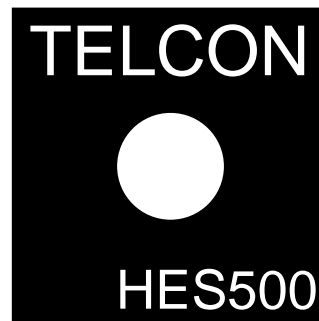
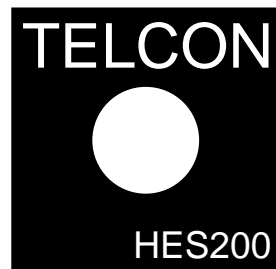




Speciality Magnetic Components
Qualified to ISO 9001:2008

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	12
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	18
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 down through board	Positive output for primary down through board

DIMENSIONS

Pin designation as viewed from below

