

## Product Data sheet : Hall Effect Current Sensor - HE025T01

Date : 16.02.2010

Rev : 03

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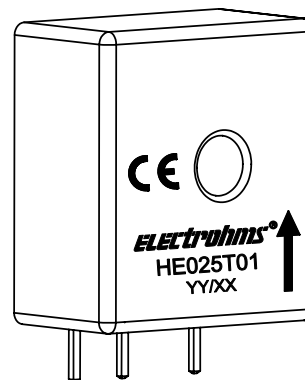
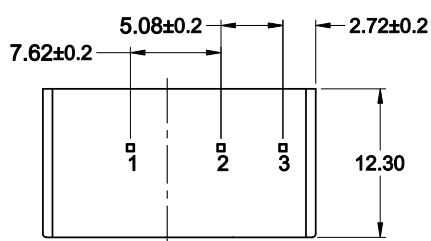
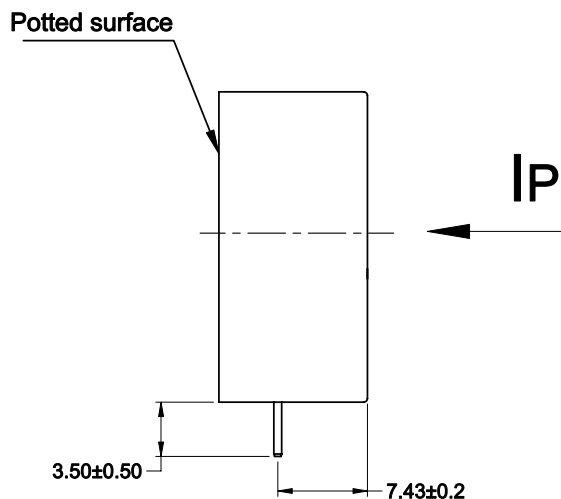
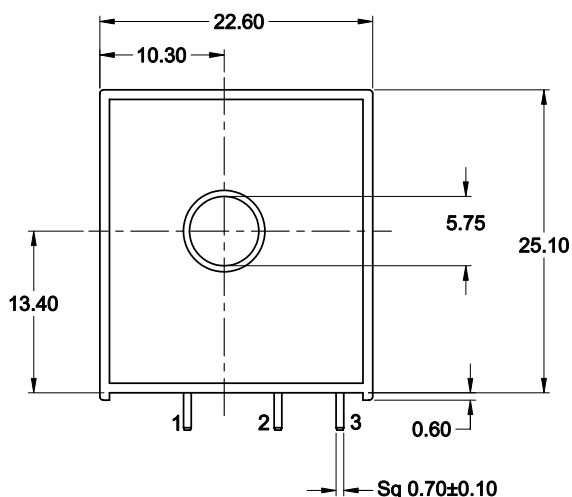
Customer: Standard

Customer's part No.: ---

**Pb** RoHS Compliant

**CE**

### ● MECHANICAL DIMENSIONS



- Pin 1 : Ground (0 V)
- Pin 2 : Supply voltage (+ Vcc)
- Pin 3 : Output Voltage

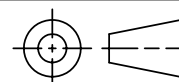
### ● APPLICATION :

Used for measurement of electric current, AC, DC, Pulsed in electrical & electronic equipment.

### ● FEATURES :

- Closed loop current sensor.
- Voltage output.
- PCB Mountable.
- All relevant materials are UL approved

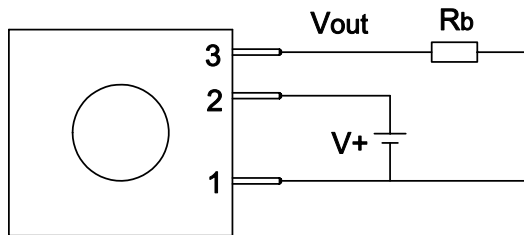
GENERAL TOL.  
±0.5 mm



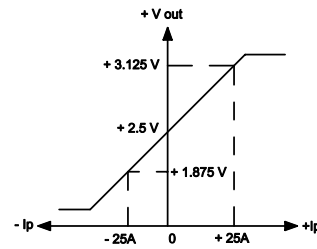
ALL DIMENSIONS  
ARE IN 'mm'

SCALE -NTS

### ● CONNECTION DIAGRAM



### ● INPUT & OUTPUT CHARACTERISTICS



+ Ip Indicates primary current flowing in the direction of the arrow

### ● SPECIFICATIONS @ 25° C \*\*

PARAMETERS	VALUES	UNITS
Primary Current Nominal (Ipn)	25	Arms
Primary current, range (Ip)	0 to +/- 56	A
Burden Resistance (Rb)	2000 (min.)	Ω
Voltage output @ Ipn = 0 (Vout)	2.50 ± 0.025	V
Voltage output per ampere of Ip	±25	mV / A
Voltage output @ Ipn	2.5 V +/- 0.625	V
Supply Voltage (V+) ±5%	+5.0	V
Current consumption @ +5V (Ic) (see note 1)	10 + Io/p + (Vout / Rb)	mA
Accuracy	+/- 1.0	%
Linearity	< 0.20	%
Temperature coefficient of Vout	100	ppm/k
Reaction time 10% Ipn step	< 100	ns
Response time 90% of Ipn step	< 400	ns
Frequency bandwidth @ -1 dB (fbw)	200	kHz
Secondary coil resistance	61.0 Typical	Ω
Dielectric strength Primary to o/p terminals	2.5	kVrms
Operating Temperature Range	- 40 to + 85	°C
Storage Temperature	- 40 to + 85	°C
Weight	12	g
Standards :	EN 55011 / CISPR 11 EN 61000-4-2 / IEC 61000-4-2 EN 61000-4-3 / IEC 61000-4-3 EN 61000-4-8 / IEC 61000-4-8	

\*\* Specifications subject to change.

Note :

1. Io/p = (Ip / Ns) = (25 / 2000) = 0.0125 A (12.5 mA)