## Cheemi Technology Co., Ltd



# DATA SHEET Hall Effect Current Sensor

## PN: CHB\_LTC15D

#### Feature

• Closed- loop (compensated) current transducer

• Capable measurement of currents: DC, AC, pulse with galvanic isolation between primary circuit and secondary circuit.

### Advantages

- High accuracy
- Easy installation
- Low temperature drift
- Optimized response time
- High immunity to external interference

### **Applications**

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical
- - CE

Very good linearity

**IPN=10~1300A** 

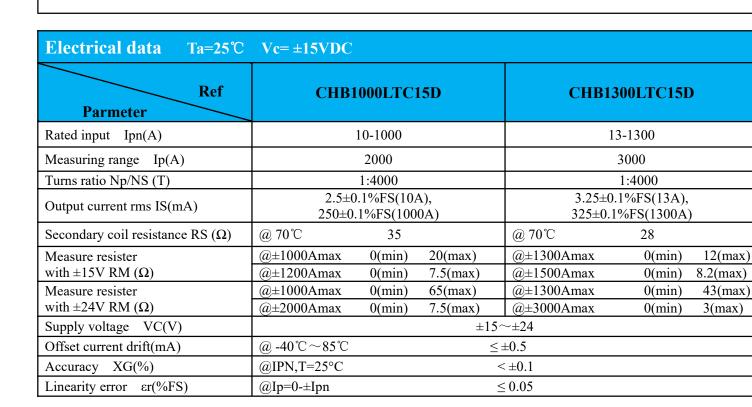
• Supply voltage:  $\pm 15 \sim \pm 24$ 

• Can be customized



ISO

RoHS





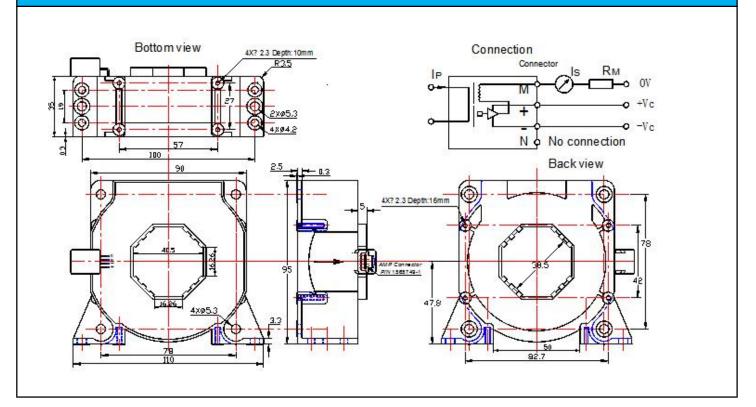
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Di/dt accurately followed A/µs		> 100	
Difut accurately followed 76 µs		> 100	
Response time $tra(\mu s)$	@100A/µS,10%-90%	<1.0	
Power consumption IC(mA)		$\leq 20 + IpX(Np/Ns)$	
Bandwidth BW(KHZ)	@ -3Db	DC150	
Insulation voltage Vd(KV)	@ 50HZ,AC,1min	6	

General data		
Parameter	Value	
Operating temperature TA(°C)	-40 ~ +85	
Storage temperature TS(°C)	-40~ +125	
Mass M(g)	543	
Plastic material	UL94-V0.	
Standards	EN60947-1:2004	
	IEC60950-1:2001	
	EN50178:1998	
	SJ 20790-2000	

#### **Dimensions(mm):**



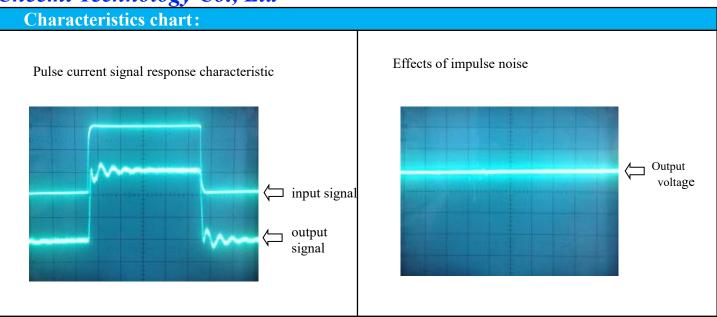
#### Remarks

- 1. All dimensions are in mm.
- 2. General tolerance  $\pm 1$ mm.



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#### **Directions for use**

- > When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- > Is will be in a forward direction when the Ip flows according to the direction of arrowhead.
- Custom design is available for the different rated input current and the output voltage.
- $\succ$  The dynamic performance is the best when the primary hole if fully filled with.
- > The primary conductor should be  $\leq 120^{\circ}$ C.
- > The primary turns should be at the top of the sensor for the best magnetic coupling.

WARNING : Incorrect wiring may cause damage to the sensor.



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