

DATA SHEET DC Leakage Current Sensor

P/N: CHD50LCT15D5

I_{PN}=±50mA

Feature

- DC Leakage Current Sensor develops on base of magnetic modulation closed loop principle
- Apply unique patented technology for measure tiny current (mA level)
- This sensor is used to measure current of signal system, circuit, and leakage monitoring system, as well as to measure current difference.
- Supply voltage: DC ±12~15 V

Advantages

- High accuracy
- Easy installation
- Wide current measuring range
- Optimized response time
- Low power consumption
- High immunity to external interference

Applications

- The current detection of the lift
- DC panel detection
- The signal system
- Current differential detection
- AC variable-speed drive/ Servo drive
- UPS and Inverter applications

- Very good linearity
- Can be customized



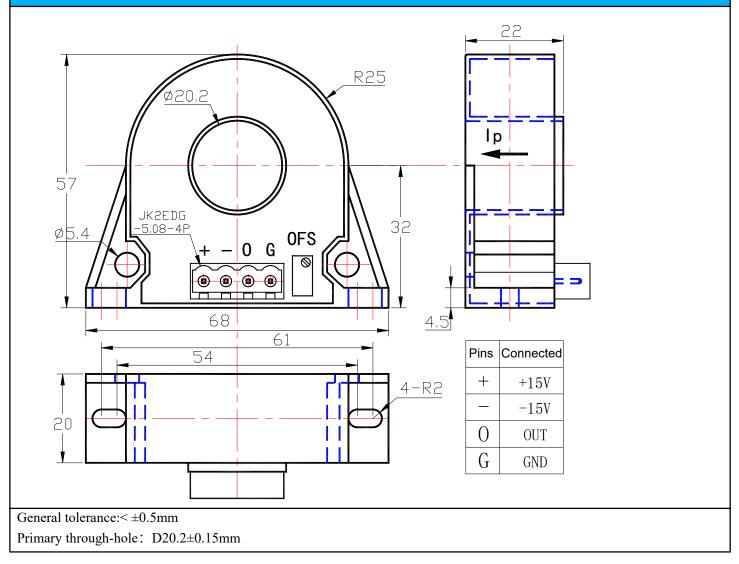
Electrical data: (Ta=25°C, Vc=±15VDC)		
Parameter Ref	CHD50LCT15D5	
Rated input Ipn	±50 mA DC	
Measuring range Ip	$0\sim\pm75$ mA	
Turns ratio(Np/Ns) (T)	1:100	
Output voltage Vo(V)	@Ip=±Ipn	$\pm 5 \pm 1\%$
Supply voltage V _C (V)	t)	±12~±15) ±5%
Accuracy X _G (%)	@I _{PN} ,T=25°C	5±1
Offset voltage V _{OE} (mV)	@I _P =0,T=25°C <	<±50
Offset voltage drift V _{OT} (mV/°C)	$@I_P=0,-40 \sim +85^{\circ}C$	≤±1
Linearity error $\epsilon r(\%FS)$	≤1	
Response time tra(mS)	≤30	
Consumption current (mA)	20+IpX(Np/Ns)	



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Insulation voltage Vd(KV)	@50/60Hz, 1min,AC 3		
General data:			
Parameter	Value		
Operating temperature TA(°	C) -40 ~ +85		
Storage temperature TS(°C)	-40~ +125		
Mass M(g)	99		
Plastic material	PBT G30/G15, UL94- V0;		
	IEC60950-1:2001		
Standards	EN50178:1998		
	SJ20790-2000		

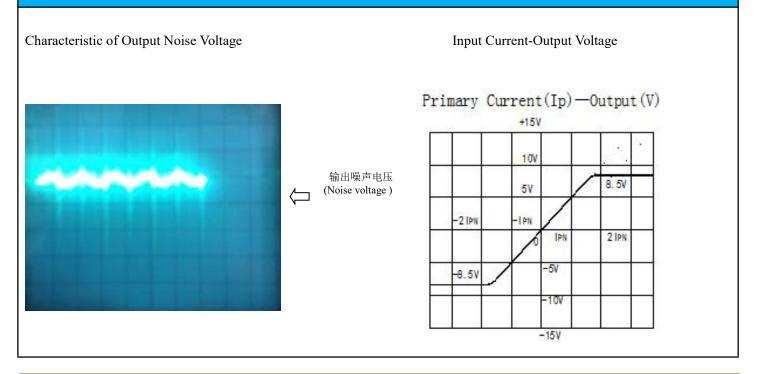
Dimensions(mm):





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Characteristics chart:



Remarks:

- > When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- > Custom design is available for the different rated input current and the output voltage.
- > The dynamic performance is the best when the primary hole if fully filled with.
- > The primary conductor should be $<100^{\circ}$ C.

WARNING : Incorrect wiring may cause damage to the sensor.



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