

# DATA SHEET Hall Effect Voltage Sensor

PN: CHV\_T15D50

IPN=200~1000V

### **Feature**

- Closed- loop (compensated) voltage transducer
- Supply voltage: DC ±12 ~ 15 V
- Capable measurement of DC and AC voltage with galvanic isolation between primary circuit and secondary circuit.

## **Advantages**

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

## **Applications**

- The application of induction cooker
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Inverter applications

- Very good linearity
- Can be customized











Electrical data: (Ta=25°C, Vc=±15VDC)					
Ref Parmeter	CHV200 T15D5	CHV400 T15D5	CHV600 T15D5	CHV800 T15D5	CHV1000 T15D5
Rated input voltage Vpn(V)	200	400	600	800	1000
Measuring range Vp(V)	0~±280	0 ~ ±560	0 ~ ±840	0~±1120	0 ~ ±1400
Turns ratio Np/NS (T)	500	500	500	500	500
Secondary coil resistance RS $(\Omega)$	30	30	30	30	30
Output current IS(mA)	±50*VP/VPN				
Inside resistance RM $(\Omega)$	【(VC-3.0)/ ( IS*0.001 )】-RS				
Supply voltage VC(V)	( ±12 ~ ±15 ) ±5%				
Accuracy XG(%)	@IPN,T=25°C <±0.5				
Offset current IOE(mA)	@IP=0,T=25°C <±0.15				
Temperature variation of IOE IOT(mA/°C)	@IP=0,-40 ~ +85°C < ±0.5				
Linearity error er(%FS)	< 0.2				
Response time tra(µs)	@90% of IPN <40.0				

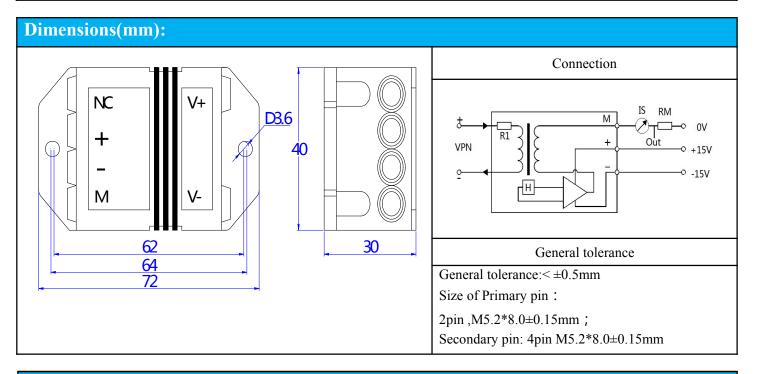


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Power consumption IC(mA)		15+Is
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	5.0

General data:			
Parameter	Value		
Operating temperature TA(°C)	<b>-40</b> ∼ +85		
Storage temperature TS(°C)	-55~ +125		
Mass M(g)	90		
Plastic material	PBT G30/G15, UL94- V0;		
Standards	IEC60950-1:2001		
	EN50178:1998		
	SJ20790-2000		



#### 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.

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WARNING: Incorrect wiring may cause damage to the sensor.

