



DATA SHEET

Hall Effect Voltage Sensor

PN: CHV10X15D20

IPN=10mA

Feature

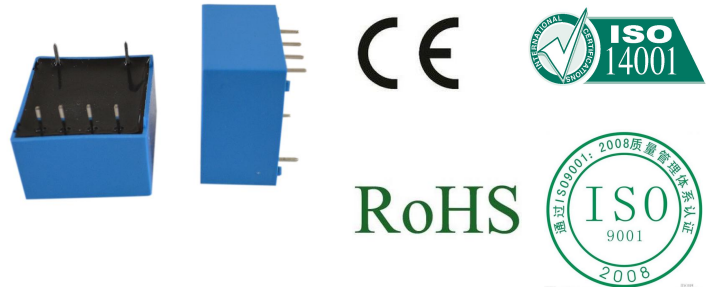
- Closed- loop (compensated) voltage transducer
- Capable measurement of DC and AC voltage with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: $\pm 15V$
- Very good linearity
- Can be customized

Advantages

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

Applications

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



Electrical data: ($T_a=25^{\circ}C$, $V_c=\pm 15VDC$)

Model	CHV10X15D20	
Rated input current(I _{pn})(mA)	10	
Measure range(I _p)(mA)	20	
Turns ratio(N _p /N _s)	2000: 1000	
Primary coil resistor(Ω)	200	
Secondary resistor(Ω)	@ +85 $^{\circ}C$	100
Rated output (I _{sn})(mA)	@ I _p = \pm I _{pn}	$\pm 20 \pm 0.5\%$
Resistor measured(Ω)	@ $\pm 15V \pm 5mA$	300 (min), 750 (max)
	@ $\pm 15V \pm 10mA$	150 (min), 500 (max)
Supply voltage(V)	$\pm 15 (\pm 5\%)$	
Offset current(mA)	@ I _p =0	$\leq \pm 0.2$
Offset drift(mA)	@ -40 \sim +85 $^{\circ}C$	± 0.6
Linearity(%FS)	@ I _p =0- \pm I _{pn}	≤ 0.1
Response time(μS)	@ I _p =I _{pn}	≤ 40
Galvanic isolation(KV)	@ 50HZ,AC,1min	2.5



General data:	
Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-40~ +125
Mass M(g)	22g
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000
	EN60947-1:2004
	UL94-V0.

Dimensions(mm):

Remarks:

1. All dimensions are in mm.
2. General tolerance ± 1 mm

Characteristics chart:

Effects of impulse noise

Remarks:



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- 1.It is positive when the I_p is applied to the terminal “+”, Temperature of the primary conductor should not exceed 100°C
- 2.When the voltage will be measured goes through a sensor, the current will be measured at the output end
- (Note: The false wiring may result in the damage of the sensor)
- 3. Custom design in the nominal input voltage and the output current available.

WARNING : Incorrect wiring may cause damage to the sensor.

