

## NACA.200L-S6/SP1VA



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### **Current Transducer**

**Applications** 

NACA.200L-S6/SP1VA

For the electronic measurement of currents: AC, DC, pulsed…, with galvanic separation between the primary circuits and the secondary circuits.

Advantages	Applications	Standards
Small size and space savings  Very good linearity	New energy cars	IEC 60068 ISO 16750
		TS 16949

Main electrical data		
	(@ $\pm$ I <sub>PN</sub> , R <sub>L</sub> = 10 k $\Omega$ , T <sub>A</sub> = 25 $^{\circ}$ C)	
I <sub>PN</sub>	Primary nominal current	200A
$I_{PM}$	Primary current measuring range	±200A
V <sub>C</sub>	Supply voltage	5(1±5%)V DC
G	Sensitivity	10mV/A
I <sub>C</sub>	Current consumption	$\leq$ 15mA+V <sub>OUT</sub> /R <sub>L</sub>
V <sub>OUT</sub>	Output voltage	$V_{c}/2\pm2V$
R <sub>out</sub>	Output internal resistance	≤10Ω
R <sub>L</sub>	Load resistance	≥10kΩ
C <sub>L</sub>	Load capacitance	≤4.7nF

Accuracy - Dynamic performance data			
δ <sub>i</sub> (I <sub>PN,</sub> T <sub>A</sub> =25°C)	Accuracy(excluding offset)	$\leqslant$ $\pm$ 1% of $I_{PN}$	
δ L(0 ±I <sub>PN</sub> )	Linearity error	$\leq$ $\pm$ 0.5%of I <sub>PN</sub>	
δ z(T <sub>A</sub> = 25°C)	Electrical offset voltage	≤2.5V±15mV	
$\delta_{Zt}$ (T <sub>A</sub> = -40°C~+125°C,V <sub>C</sub> =5V)	Temperature coefficient of $\delta_{\rm \ Zt}$	≤±0.1mV/°C	
(T <sub>A</sub> = -40°C~+125°C,V <sub>C</sub> =5V)	Temperature coefficient of G	≤±0.05%/°C of G	
T <sub>R</sub> (90% of I <sub>PN</sub> &di/dt 100 A/μS)	Step response time to 90 % of $I_{\text{PN}}$	<b>≤</b> 7μ <b>S</b>	
(—3dB)BW	Frequency bandwidth (—3dB)	DC ··· 30kHz	



## NACA.200L-S6/SP1VA



Та	Ambient operating temperature	-40~+125℃
Ts	Ambient storage temperature	-45~+125℃
m	Mass	≤30g

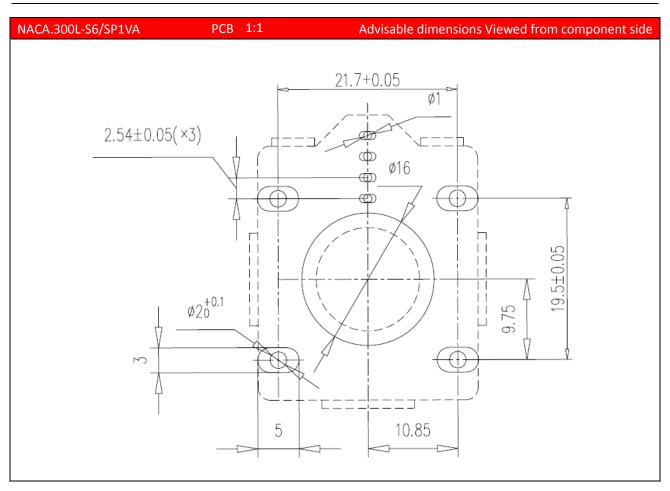
Insulation coordination		
	Voltage for AC insulation test, 50Hz,1min	2.5kV
R <sub>IS</sub>	Isolation resistance	≥500MΩ

# NACA.200L-S6/SP1VA Dimensions NACA.200L-S6/SP1VA Series (in mm) 3×2.54(=7.62) 12.8±0.3 3.3 9.75 19.5 $0.8 \pm 0.05$ 10.85 3.75 21.7 28.6±0.3 26.6 E CRRC $35.45\pm0.4$ ø12.5±0.25



## NACA.200L-S6/SP1VA





Connection	
电流传感器	4 Vc 3 Vout 2 NC 1 OV

Mechanical characteristics	Remark
General tolerance $\pm$ 0.5 mm	



