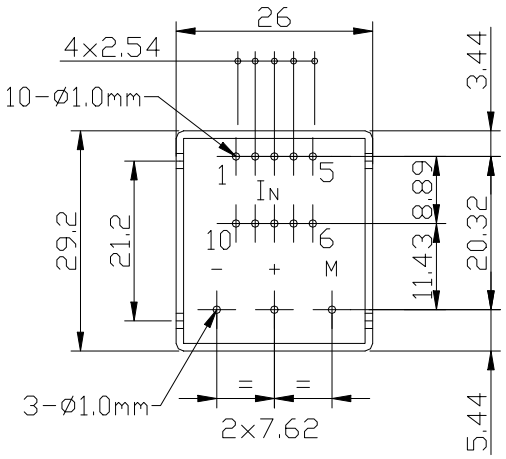
SENSOR Module CHB-25NP

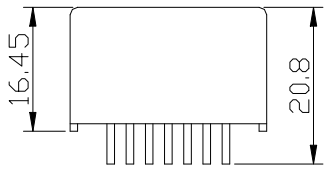
I_N = 5…25A

Specifications: Closed loop Hall current sensor, Nominal current 5…25A RMS for measuring of currents: AC, DC, pulsed…

	Type	CHB-25NP				
I_N	Nominal current (RMS)	5A	6A	8A	12A	25A
I_P	Measuring range (I_{P-P})	0…±7A	0…±9A	0…±12A	0…±18A	0…±36A
I_M	Output current	25mA	24mA	24mA	24mA	25mA
K_N	Turns ratio	5:1000	4:1000	3:1000	2:1000	1:1000
R_M	Measuring resistance	R_M min			R_M max	
	（Vc =±15V）	100Ω (at 25A or 36A)			300Ω (at 25A); 190Ω (at 36A)	
X	Accuracy (Ta =+25℃)	I_N±0.8%				
Vc	Supply voltage	±15V (±5%)				
Vi	Isolation voltage	Between primary and secondary circuit: 2.5KV RMS/50Hz/1min.				
Ioff	Offset current (Ta =+25℃)	±0.3mA max, for primary current I_N=0				
Td	Temperature drift	I_M of 0.05%/℃ (-25℃…+85℃)				
L	Linearity	< 0.1%				
Tr	Response time	< 1μS				
	di/dt	> 50A/μS				
f	Frequency bandwidth	0…100KHz				
Ic	Current consumption	10mA+I_M (Output current)				
Ta	Operating temperature	-25℃…+85℃				
Ts	Storage temperature	-40℃…+90℃				
Rs	Secondary resistance	100Ω（Ta =+70℃）				
RN	Primary resistance	<1.25×10^{-3}Ω/ Turn				
W	Weight	18g				

Dimensions (mm):





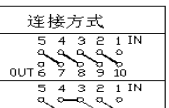
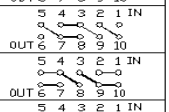
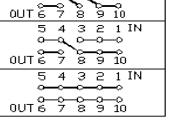
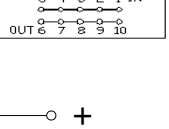
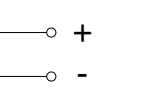
Secondary terminals:

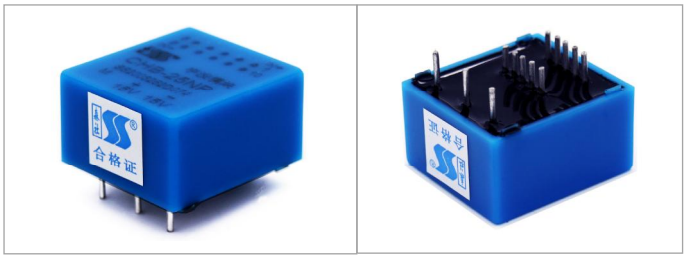
+: supply voltage +15V

M: output

- : supply voltage - 15V

Connection:

原边匝数	IN(A)	IP(A)	输出电流	匝比	连接方式
5	5	7	25	5/1000	
4	6	9	24	4/1000	
3	8	12	24	3/1000	
2	12	18	24	2/1000	
1	25	36	25	1/1000	



1. Output I_M is positive, when the primary current I_N flows in the direction from pin 1 to pin 6.
2. Mounting: PCB