SHAANXI SHINHOM ENTERPRISE CO.,LTD

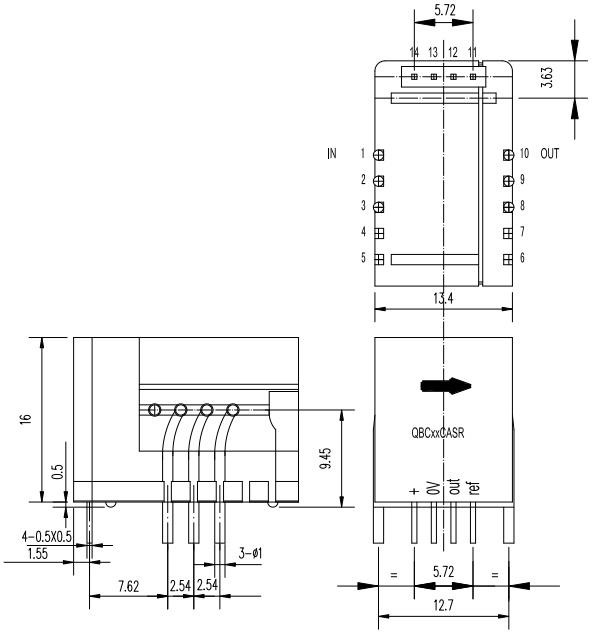
HBC-CASR Series Hall Effect Current Sensor

The HBC-CASR series current sensor is an open loop device based on the measuring principle of the Hall Effect, with a galvanic isolation between primary and secondary circuit. It provides accurate electronic measurement of DC, AC currents.

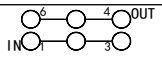
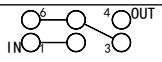
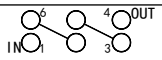
ELECTRICAL DATA

	HBC06CASR	HBC15CASR	HBC25CASR	HBC50CASR	
Rated input current(Ipn)	6	15	25	50	A
Test current range(Ip)	19.2	48	80	100	A
Turns ratio(Np/Ns)	960	1200	2000	2000	T
Rated output voltage	0.625±0.5%	0.625±0.5%	0.625±0.5%	0.625±0.5%	V
Supply voltage	+5±5%				V
Reference voltage(Vref)	2.500±1%				V
Reference voltage drift(-40～+85℃)	≤±0.2				mV/℃
Offset Voltage	2.5±0.5%				V
Offset voltage drift(-40～+85℃)	≤±0.5				mV/℃
Linearity	≤±0.2				%FS
Precision	≤±0.7				%
di/dt	＞50				A/μS
Response Time	＜500				nS
Bandwidth	(-1db) DC～200				KHZ
Galvanic Isolation	50HZ,1min,2.5				KV
Operating Temperature	-40～+85				℃
Storage Temperature	-40～+105				℃

MUTING DIMENSIONS(FOR REFERENCE ONLY)



THE WIRING DIAGRAM

Turns	Rated input current(Ipn) [A]	Rated output voltage VOUT[V]	Pri DCR [mΩ]	Pri inductance [uH]	Terminal
1	±6(±15，±25，±50)	2.5±0.625	0.18	0.013	
2	±3(±7.5,±12.5,±25)	2.5±0.625	0.81	0.05	
3	±2(±5,±8.3,±16.6)	2.5±0.625	1.62	0.12	

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