SHAANXI SHINHOM ENTERPRISE CO.,LTD

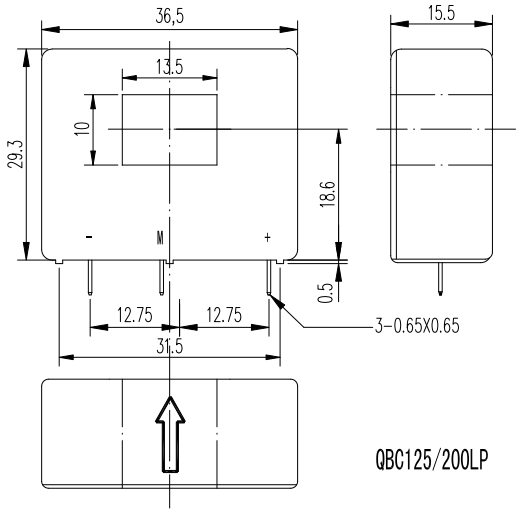
HBC-LP Series Hall Effect Current Sensor

The HBC-LP 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 or pulsed currents.

ELECTRICAL DATA

		HBC125LP	HBC200LP	
Rated Current(IPN)		125	200	A
Measure Range(IP)		250(±18V， 15Ω)	400(±18V， 12(	A
Rated Output Current(ISN)		125±0.5%	100±0.5%	mA
Supply Voltage		±12～±18	±12～±18	V
Test Resistance	with±12V @±200Amax	14(min) 30(max)	0(min) 75(max)	Ω
	@±250Amax	14(min) 20(max)	0(min) 50(max)	Ω
	with±15V @±200Amax	25(min) 47(max)	10(min) 100(max)	Ω
	@±300Amax	10(min) 22(max)	10(min) 56(max)	Ω
Turns ratio		1:1000	1:2000	
Sec resistance		30	45	Ω
Offset current			±0.2	mA
Offset current Drift	-40℃～85℃		±0.5	mA
Response Time			＜1	μs
Linearity			≤0.2	%FS
Insulation voltage	50(60)HZ,1min		3	KV
di/dt			＞100	A/μs
Bandwidth(-3dB)			DC…100	KHz
Operating Temperature			-40～+85	℃
Storage Temperature			-40～+105	℃

MUTING DIMENSIONS(FOR REFERENCE ONLY)



INSTRUCTIONS FOR USE

1.When the current will be measured goes through a sensor, the voltage will be measured at the output end.

(Note: The false wiring may result in the damage of the sensor).

2. The output amplitude of the sensor can be adjusted according to users requirements.

3. Custom design in the nominal input current and the output voltage available