



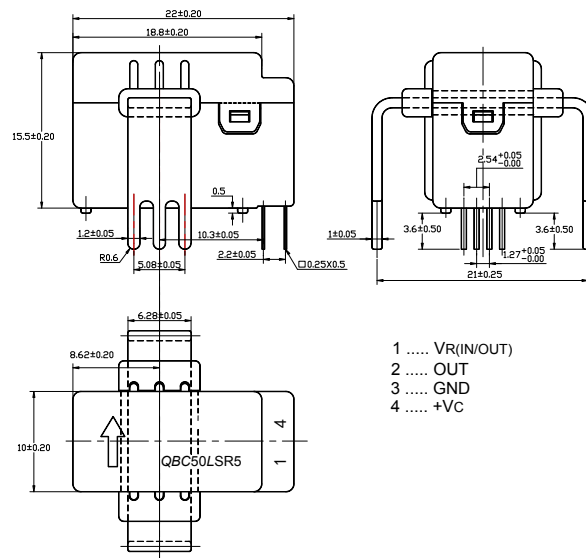
HBC50LSR5 Series Hall Effect Current Sensor

The HBC50LSR5 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

	HBC06 LSR5	HBC10 LSR5	HBC15 LSR5	HBC20 LSR5	HBC25 LSR5	HBC30 LSR5	HBC40 LSR5	HBC50 LSR5	
Rated input current(I _{pn})	6	10	15	20	25	30	40	50	A
Test current range(I _p)	±15	±25	±37.5	±50	±62.5	±75	±100	±105	A
Turns ratio(N _p /N _s)	1:1200	1:1000	1:1125	1:1000	1:1250	1:1125	1:1000	1:1000	T
Rated output voltage	±0.8±0.5%								V
Supply voltage	+5±5%								V
Offset Voltage	2.5±0.5%								V
Reference voltage (VR)	2.5±0.8%								V
External reference voltage	2.0-2.8								V
Offset voltage Drift	≤±0.1								mV/°C
Output voltage Drift	≤±0.05								mV/°C
Linearity(I _p =0-±I _{pn})	≤±0.2								%FS
Precision	≤±1.0								%
di/dt	> 50								A/μS
Response Time	≤1								μS
Bandwidth(-1db)	DC~100								KHZ
Galvanic Isolation(50HZ,1min)	2.5								KV
Operating Temperature	-40~+85								°C
Storage Temperature	-40~+105								°C

MUTING DIMENSIONS(FOR REFERENCE ONLY)



- 1 VR(IN/OUT)
- 2 OUT
- 3 GND
- 4 +VC

NOTES

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.