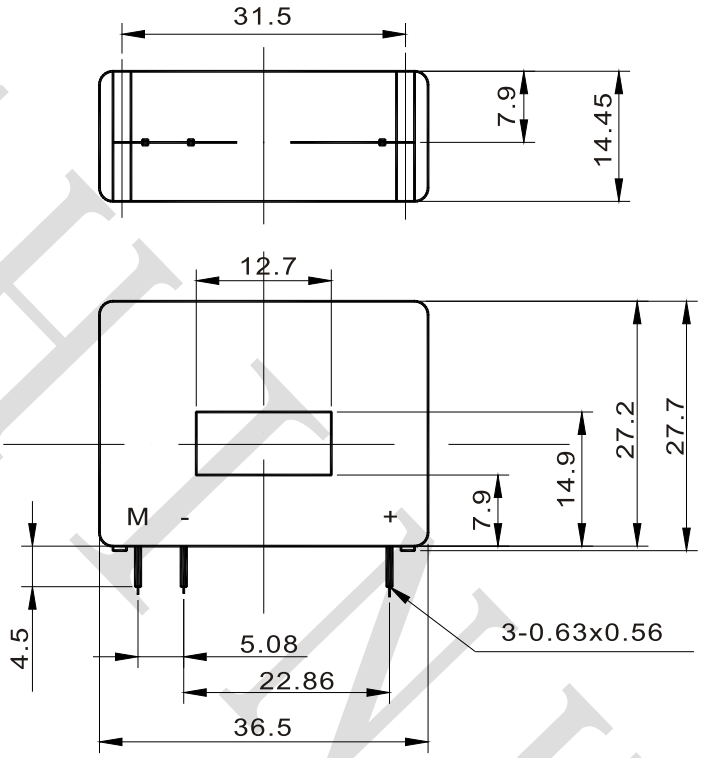
SHINHOM

SPECIFICATION FOR APPROVAL

LEAD FREE
RoHS compliance

CUSTOMER		PART NO:	HBC50LA
CUSTOMER P/N		NAME	Current Sensor
DATE	2010-12-10	HUMIDITY	48% (25 ℃)

MUTING DIMENSIONS



Closed loop (Compensated)current transducer using hall effect,
Insulated plastic case recognized according to UL94-V0(PCB mounted)

ELECTRICAL DATA

Nominal Current	50	A
Measuring range	0...±70	A
Turns ratio	1:1000	
Measuring resistance (Ta=70deg)	with±12V@±50A max-100(max)	Ω
	@±70A max-50(max)	Ω
	with±15V@±50A max-160(max)	Ω
	@±70A max-90(max)	Ω
Supply voltage	±12...15	V
Nominal analogue output -secondary current	50	mA
Accuracy at +25 ℃ @ ± 15V	0.65	%
Current consumption	10(@±15V)+output current	mA
RMS Voltage for AC isolation 50Hz 1 min	2.5	KV

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Accuracy Dynamic Performance

Zero offset current Ta= 25 ℃	±0.2max	mA
Thermal drift of offset current	0℃~+70℃,±0.5max -25℃~+85℃,±0.6max	mA
Response time	<1	us
Linearity	≤0.15	%FS
Bandwidth(-3dB)	DC...200	KHz
di/dt	>200	A/us
Reaction time	<500	Ns

General Data

Secondary internal coil resistance	Ta=70℃ 80Ω & Ta=85℃ 85Ω	Ω
Operating temperature	-25~+85	℃
Storage temperature	-40~+90	℃
mass	18	G
Fastening & secondary connection Recommended PCB hole	3 pins 0.9mm	

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