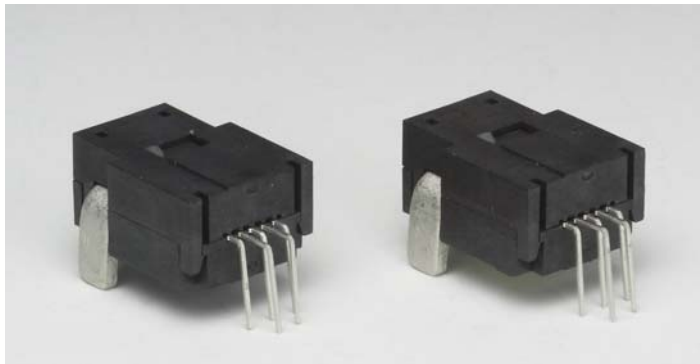


Power supply 3.3V ! & Compact current sensors LA02/LA03 Series (Open loop type - ASIC model)

Coming soon

Power supply is 3.3V(LA02 Series) or 5.0V(LA03 Series).
Sufficient creepage distance : 13.3mm. Suitable for replacement sensors from the shunt resistance & isolation amplifier method with consumer products and smart meter.



SPECIFICATIONS

The standard is different depending on the model.

Ta=25°C, RL ≥ 10MΩ

Parameters	Symbol	LA02P054S05	LA03P054S05
Supply Voltage	V _{CC}	3.3V±10%	5.0V±10%
Measurement current range	I _{fmax}	±54A	
Maximum primary current	I _{p(RMS)max}	50Arms	
Sensitivity	G _{th}	24.5mV/A (Gain 1.323V at I _{fmax})	40mV/A (Gain 2.16V at I _{fmax})
Offset Voltage(at I _f =0A)	V _{of}	1.650V±0.014V	2.500V±0.020V
Sensitivity error	ε _G	≤ ±1.3%	≤ ±1.0%
Output Linearity	ε _L	≤ ±1.0%FS	
di/dt response time (at 90% of I _f)	t _r	1μS typ	
Frequency bandwidth	f	DC ~ 300 kHz	
Temp drift of Sensitivity	TCG	±0.4% typ	≤ ±0.5%typ
Temp drift voltage of V _{of}	TcV _{of}	3.5mV typ	8.0mV typ
Insulation voltage	V _d	AC 3.0kV for 1minute,	
Ambient operating temp	T _A	-40°C ~ +110 °C	

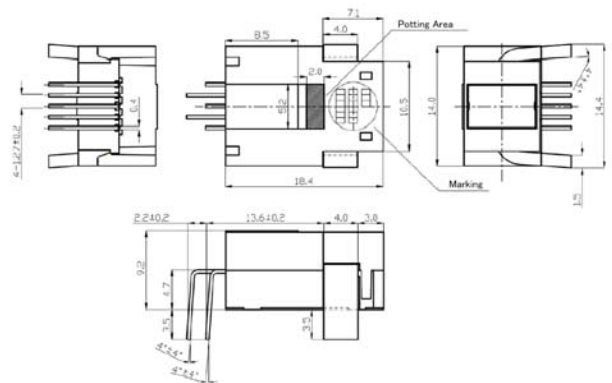
Features

- Low profile package(9.2mm on PCB)
- Only 22.8*14.4mm as surface occupied on the PCB
- Ferrite core is used. Heat generation due to high-frequency current is reduced.
- Through-hole type, 8 models in two series
- Open loop type - ASIC model
- Creepage & Clearance distance : 13.3mm
- Standards : UL508,
IEC60950/62109(being reviewed)

General characteristics

- Unipolar power supply : LA02P series +3.3V
LA03P series +5.0V
- Offset voltage : V_{CC}/2 (ratiometric)
- Sensitivity range : LA02P series 100-25 mV/A
LA03P series 62.5-15.5 mV/A
- Measurement current range : 21A, 35A, 54A, 85A
(Pulse current)
- Maximum effective current : 50 Arms

Outline drawing (mm)



Contact

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TAMURA

May 12, 2014

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