

CSAU-100

Automotive HEV Current Transformer up to 35 Amps

INDUCTIVE COMPONENTS / CURRENT TRANSFORMERS



APPLICATIONS

- › Automotive HEV DC/DC Converters and Battery Chargers
- › Industrial high power SMPS

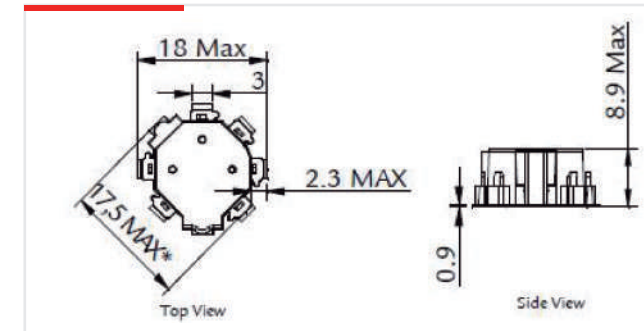


01 FEATURES

- › Design for high performance 2-3kW SMPS
- › Very low profile: 8.5mm max
- › Primary current up to 35 Arms
- › Working frequency from 100 to 250kHz
- › High isolation between primary and secondary
- › Potted solution assures safety creepage distance $\geq 5\text{mm}$
- › High Operating Temperature -40 to 155 °C.
- › AOI (Automatic Optical Inspection) component
- › Very stable performances versus temperature
- › No thermal aging effect
- › UL94V-0 material
- › RoHS compliant

02 SPECIFICATIONS

DIMENSIONS

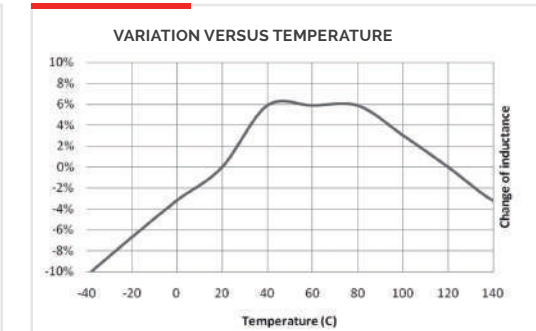


ELECTRICAL SPECIFICATIONS

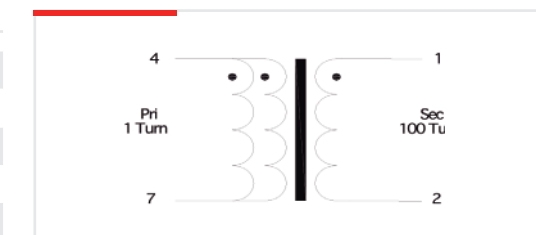
Primary Current I_{rms} (A)	35
Secondary Turns	100
Secondary Inductance mH (Min)	4.0
DCR Primary typ (mOhm)	0.5
DCR Secondary typ (Ohm)	0.8
Primary to Secondary Isolation (kVdc)	3

- › All test data are referenced to 25°C ambient temperature
- › (2) Inductance values are measured at 100kHz/0.1V
- › (3) See L vs. Idc curve beside
- › (4) Burden resistor from 5 to 10 Ohms
- › (5) Continues operating temperature range must be within -40/+155°C (ambient + self heating)

TYPICAL INDUCTANCE



ELECTRICAL DIAGRAM



RECOMMENDED PAD-LAYOUT

