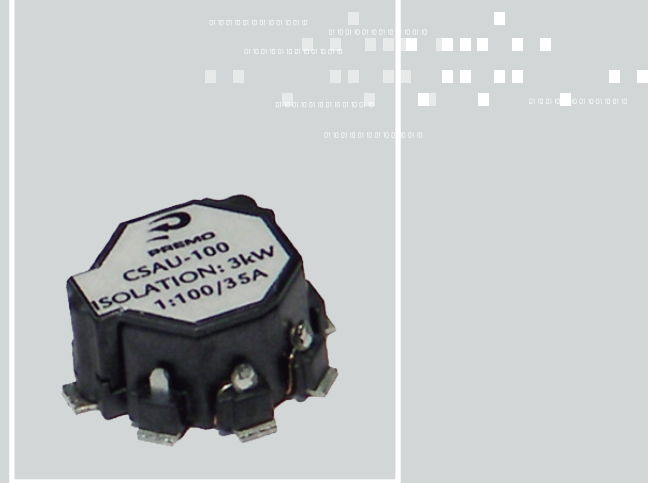


CSAU-100

Automotive HEV Current Transformer up to 35 Amps

INDUCTIVE COMPONENTS / CURRENT TRANSFORMERS



APPLICATIONS

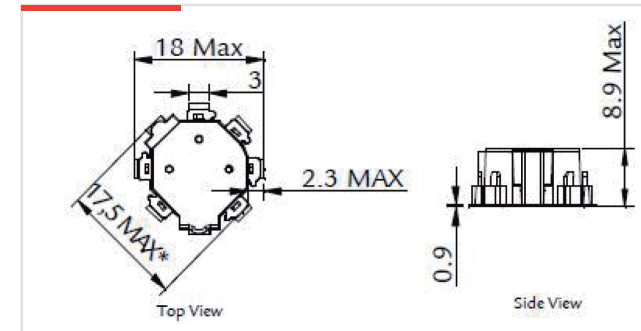
- › Automotive HEV DC/DC Converters and Battery Chargers
- › Industrial high power SMPS

01 FEATURES

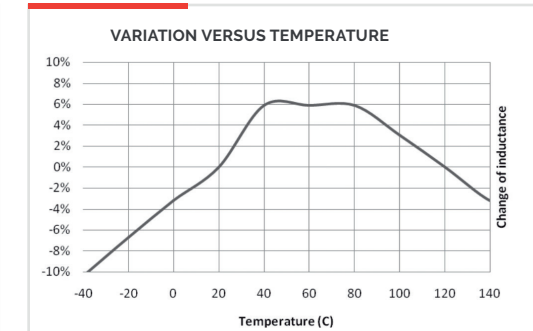
- › Design for high performance 2-3kW SMPS
- › Very low profile: 8.5mm max
- › Primary current up to 35 Arms
- › Working frequency from 100 to 250kHz
- › High isolation between primary and secondary
- › Potted solution assures safety creepage distance $\geq 5\text{mm}$
- › High Operating Temperature -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 (mm)



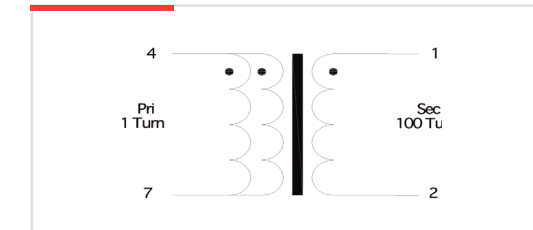
TYPICAL INDUCTANCE



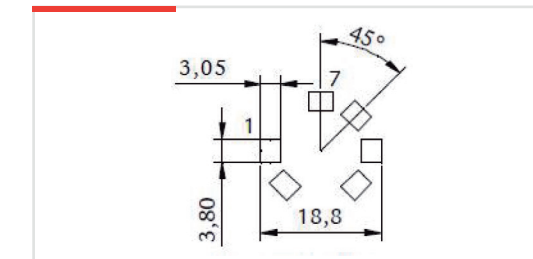
ELECTRICAL SPECIFICATIONS

Primary Current Irms (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

ELECTRICAL DIAGRAM



RECOMMENDED PAD-LAYOUT



- › 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)