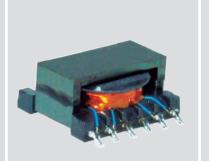
GDAU-001

Isolated SMD Gate Drive Transformer up to 150V μs

INDUCTIVE COMPONENTS / GATE-DRIVE TRANSFORMER





APPLICATIONS

- > Half- or full-bridge MOS transistors control in SMPS
- > Automotive EV/HEV DC/DC converters and battery chargers
- Industrial high power SMPS

FEATURES

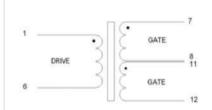
- > 150Vµs MAX ET product
- > Design for high performance EV/HEV onboard SMPS
- > Height: 7.8mm MAX, Pick & Place compatible
- > Footprint : SMD 18 x 14.5mm MAX
- > RMS current rating : up to 0.5Arms
- > 1:1+1 turn ratio for bridge control
- > Working frequency from 90 to 125kHz
- > 3kV isolation between primary and secondary
- > High operating temperature range -40 to +155°C
- > AOI (Automatic Optical Inspection) component
- > UL94V-0 and RoHS material
- > Design compliant with AEC-Q200 requirements
- > No thermal aging effect
- > Weight: less than 5g

SPECIFICATIONS

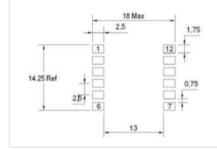
DIMENSIONS

16.8 Max 12 Ref XX/YY 16.1 Max

ELECTRICAL DIAGRAM



RECOMMENDED PAD-LAYOUT



ELECTRICAL SPECIFICATIONS

MAX ET Product (Vµs)	150
Turn-Ratio	1:1+1
Primary Inductance (uH)	400-800
Secondary DCR MAX (mΩ)	0.8
Primary DCR MAX (Ω)	0.5
Primary to Secondary Isolation (kVdc)	3

- > (1) All test data are referenced to 25°C ambient temperature
- > (2) The inductance value is measured at 100kHz/0.1Vac
- > (3) The isolation is tested at DC/2sec (1min for qualification)
- > (4) The creepage distance is guaranteed > 5mm
- > (5) Continuous operating temperature range must be within -40/+155°C (including self-heating of the part)
- (6) Leakage inductance value is less than 2µH (viewed from primary side at 100kHz/0.1Vac)
- > (7) Inter-winding stray capacitance is less than 12pF (between prim shorted and sec shorted at 100kHz/0.1Vac)