**GDAU-001**

**Isolated SMD Gate Drive Transformer up to 150Vμs**

**INDUCTIVE COMPONENTS / GATE-DRIVE TRANSFORMER**

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**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

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**APPLICATIONS**

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

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**SPECIFICATIONS**

**MAX ET Product (Vμs)**

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<tr>
<th>150</th>
<th>Max. ET Product (Vμs)</th>
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**Turn-Ratio**

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<th>1:1+1</th>
<th>Turn-Ratio</th>
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**Primary Inductance (μH)**

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<th>400-800</th>
<th>Primary Inductance (μH)</th>
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**Secondary DCR MAX (mΩ)**

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<th>0.8</th>
<th>Secondary DCR MAX (mΩ)</th>
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**Primary DCR MAX (Ω)**

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<th>0.5</th>
<th>Primary DCR MAX (Ω)</th>
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**Primary to Secondary Isolation (kVdc)**

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<th>3</th>
<th>Primary to Secondary Isolation (kVdc)</th>
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- (1) All test data are referenced to 25°C ambient temperature
- (2) The isolation is tested at DC/2sec (min for qualification)
- (3) Continuous operating temperature range must be within -40/+155°C (including self-heating of the part)
- (4) Inter-turn winding stray capacitance is less than 12pF (between prim shorted and sec shorted at 100kHz/0.01sec)