**FEATURES**

- Isolated gate-drive transformer for inverters in xEV
- 1:1:5 turn-ratio
- Input voltage 5Vdc TYP
- Switching frequency 120-150kHz (±40kHz TYP)
- MAX EI product 22Vμs (unipolar 50%)
- MAX current 700mA PRIM / 140mA SEC
- Working voltage up to 1000Vdc MAX
- Basic isolation (IP03)
- Creepage distance > 10mm (CTI-I > 600V)
- Wide operating temperature range -40 to +125°C
- UL94 and RoHS materials
- Design based on AEC-Q200D
- Weight: approx. 3grams

**APPLICATION**
- Automotive xEV inverters (IGBT control)

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**SPECIFICATIONS**

**DIMENSIONS (mm)**

**ELECTRICAL DIAGRAM (Top View)**

**RECOMMENDED PAD-LAYOUT**

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**ELECTRICAL SPECIFICATIONS**

**INDUCTANCE at 25°C**

<table>
<thead>
<tr>
<th>L1,2</th>
<th>100kHz/1V Vac</th>
<th>70-150μH (110μH TYP)</th>
</tr>
</thead>
</table>

**TURN-RATIO**


**DC RESISTANCE at 25°C**

DCR1/2 / DCR2/3 / DCR4/6

0.15Ω / 0.4Ω / 1.8Ω MAX

**LEAKAGE INDUCTANCE**

LLK (100kHz/1V Vac)

1.5μH MAX (1μH TYP)

**STRAY CAPACITANCE**

C (100kHz/1V Vac)

15pF MAX (10pF TYP)

**DIELECTRIC STRENGTH**

Between PRIM/SEC Wdgs

2.5kVac (50Hz/3mA/1min)