Gate Drive Transformer

**EPA4493G-LF**

- High Speed Switching Transformer for AC Coupled MOSFET and IGBT Gate Drive Circuits
- Low Leakage Inductance
- Class B Insulation System
- Switching Frequency: 100 kHz to 2 MHz
- Operating Temperature: -40°C to +125°C
- Ideal for Automotive and Industrial Applications
- Designed to meet AEC-Q200 Grade 1

### Electrical Specifications @25°C

<table>
<thead>
<tr>
<th>Inductance¹ (µH Min.)</th>
<th>Le¹² (µH Max.)</th>
<th>DCR (Ω max.)</th>
<th>Cw-w (pF Max.)</th>
<th>Turns Ratio</th>
<th>ET-Constant³ (V-usec Min.)</th>
<th>Isolation (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pri.</td>
<td>Sec.1</td>
<td>Sec.2</td>
<td>Pri. - Secs.</td>
<td>Pri. : Sec.1 : Sec.2</td>
<td>Pri. - Secs.</td>
<td>Pri. &amp; Secs.-Core</td>
</tr>
<tr>
<td>250</td>
<td>0.3</td>
<td>1.5</td>
<td>1.5</td>
<td>1 : 1 : 1</td>
<td>20</td>
<td>500</td>
</tr>
</tbody>
</table>

Notes:
1) Measured at 100 kHz 0.1 Vrms
2) Measured at Primary with Secondary shorted
3) AC-Coupled Driven

### Packaging

- Pad=0.035 x 0.063 (0.90 x 1.60) 6 places
- Component Outline 0.215 x 0.363 (5.46 x 9.22)

### Schematic

- Product weight: 0.51 gms.
- Lead Finish: Hot Dipped Sn or SnCu
- Moisture sensitivity level: 1
- Resistance to solder heat: 245°C
- Ordering Information:
  - Tape & Reel (1000 pcs / 13" Reel)
  - Tube: 80 pcs / tube

Unless Otherwise Specified Dimensions are in Inches /mm ± .010 /.25

Product performance is limited to specified parameters. Data is subject to change without prior notice.

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