Features
- Compact size
- Targeted speed up to 1 Gbps
- Meets EN60950-1 Functional Insulation
- RoHS compliant*

Applications
- Broadcom G.Fast chipset BCM6594x and BCM6524x
- Microsemi line driver Le87282

SM51430EL G.Fast Transformer

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCR</td>
<td>Pin 1-4: 1 Ω max. Pin 5-8: 1 Ω max.</td>
</tr>
<tr>
<td>Inductance @10 kHz, 0.1 Vrms</td>
<td>Pin 1-4: 10 μH ±10% (Pin 2,3 Short)</td>
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<tr>
<td>Leakage Inductance @100 kHz, 0.1 Vrms</td>
<td>Pin 1-4: 1 μH max. (Pin 2-3, 5-6-7-8 Short)</td>
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<tr>
<td>Interwinding Capacitance @100 kHz, 0.1 Vrms</td>
<td>Pin 1-8: 50 pF max. (Pin 2-3, 6-7 Short)</td>
</tr>
<tr>
<td>THD @200 kHz, 1 Vrms</td>
<td>Pin 1-4: -68 dB min. (Pin 1-4, Pin 5-8: 100 Ω termination; Pin 2-3, 6-7 Short)</td>
</tr>
<tr>
<td>Longitudinal Balance</td>
<td>Pin 1-4: &lt;12 MHz (Pin 2-3 Short)</td>
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<tr>
<td></td>
<td>Pin 1-4: 41 dB min. @17 MHz (Pin 2-3 Short)</td>
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<tr>
<td></td>
<td>Pin 1-4: 36 dB min. @30 MHz (Pin 2-3 Short)</td>
</tr>
<tr>
<td>Turns Ratio @10 kHz, 0.1 Vrms</td>
<td>Pin 1-4: 1: ±2% (Pin 2-3, 6-7 Short)</td>
</tr>
<tr>
<td>Hi-Pot @1500 VAC, 1 sec., 0.5 mA</td>
<td>Pin 1-8: (Pin 2-3, 6-7 Short)</td>
</tr>
</tbody>
</table>

Operating Temperature Range
-40 °C to +85 °C

Storage Temperature Range
-40 °C to +85 °C

Packaging Specifications
- Tape & Reel: 900 pcs./reel

Recommended Layout

How To Order
Model: SM51430
Packaging: E = Tape and Reel (900 pcs./reel)
Termination: L = Tin (RoHS Compliant)

Electrical Schematic

Product Dimensions

Reflow Solder Profile

WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.
Packaging Specifications

USER DIRECTION OF FEED

QUANTITY: 900 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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