High Isolation Power Transformers

PA3964.XXXNL and PA3965.XXXNL - SMT

- **Power Range:** up to 10W
- **Height:** 7.0mm to 14.0mm Max
- **Footprint:** 18.0mm x 15.6mm Max
- **Topology:** Forward, Flyback and Push-pull
- **Isolation:** 5.0kVrms (1000Vrms continuous)
- **Insulation:** Basic, 12mm creepage and clearance distance
- **Patent Pending:**

### Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C

<table>
<thead>
<tr>
<th>Transformer</th>
<th>Pri. Inductance</th>
<th>Lk. Inductance</th>
<th>DCR</th>
<th>Hi-Pot</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3964.001NL</td>
<td>(1-2) 15.6mH ±1.5%</td>
<td>(1-2) 1.4µH MAX</td>
<td>(1-2) 1000mΩ MAX</td>
<td>Pri-Sec 5000Vrms</td>
</tr>
<tr>
<td>PA3964.002NL</td>
<td>(3-4) 0.51mH ±15%</td>
<td>(5-8) 1.4µH MAX</td>
<td>(5-6)=(7-8) 115mΩ MAX</td>
<td>Pri-Sec 5000Vrms</td>
</tr>
<tr>
<td>PA3965.001NL</td>
<td>(1-2) 680µH ±15%</td>
<td>(1-2) 15µH MAX</td>
<td>(1-2) 1870mΩ MAX</td>
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USA 858 674 8100  Germany 49 2354 777 100  Singapore 65 6287 8998  Shanghai 86 21 62787060  China 86 755 33966678  Taiwan 886 3 4556768

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Notes:
1. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

2. Continuous isolation voltage confirmed by 125°C/1000hrs accelerated aging with the bias voltage applied between primary and secondary windings.

3. Optional Tape & Reel packaging can be ordered by adding a “T” suffix to the part number (i.e. (PA3964.001NL becomes PA3964.001NL T). Pulse complies with industry standard tape and reel specification EIA481. The tape and reel for this product has a width (W=32mm), pitch (Po=24mm) and depth (Ko) is equal to 8.0 for PA3964.XXXNLT and 14.5 for PA3965.XXXNLT. PA3964.XXXNLT has 300pcs per reel. PA3965.XXXNLT has 150pcs per reel.

4. US Patent application number: 13/291, 545

Mechanics

For More Information