**High Frequency Batcore Planar Transformer**

**ER25+ (up to 800W)**

- **Power Rating:** up to 800W
- **Height:** 18.3mm Max
- **Footprint:** 33.5mm x 26.8mm Max
- **Frequency Range:** 200kHz to 700kHz
- **Isolation (Primary to Secondary):** 1500VDC
- **Patent pending**

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**Power Specifications**

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**Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Turn Ratio</th>
<th>Primary Inductance (µH MIN)</th>
<th>Leakage Inductance (µH MAX)</th>
<th>DCR (mΩ MAX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH9278NL</td>
<td>3T</td>
<td>37.8</td>
<td>0.12</td>
<td>2.4</td>
</tr>
</tbody>
</table>

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**Mechanical**

- **Weight:** 45 grams
- **Tray:** 30/tray
- **Tape & Reel:** 45/reel

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**Schematic**

- **Weight:** 45 grams
- **Tray:** 30/tray
- **Tape & Reel:** 45/reel

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Unless otherwise specified, all tolerances are ±0.010

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**RoHS Compliant**

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**USA 858 674 8100**

**Germany 49 7032 7806 0**

**Singapore 65 6287 8998**

**Shanghai 86 21 62787060**

**China 86 755 33966678**

**Taiwan 886 3 4356768**

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**pulseelectronics.com**
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Notes

PH9278NL

1. Leakage inductance is measured on winding (1-3) with (4,5,6)shorted.
2. The “NL” suffix indicates a ROHS-compliant part number.
3. Other primary and secondary turns are available on request.
4. Optional Tape & Reel packaging can be ordered by adding a “T” suffix to the complete number (e.g. PH9278NL becomes PH9278NLT).
5. To determine if the transformer is suitable for your application, it is necessary to ensure that the temperature rise of the component (ambient plus temperature rise) not exceed its operating temperature. To determine the approximate temperature rise of the transformer, refer to the graphs below.

![Core Loss vs Flux Density](image1)

Core Loss vs Flux Density

![Temperature Rise vs. Power Disipation](image2)

Temperature Rise vs. Power Disipation

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