High Isolation Power Transformer
Shaped Core Platform SMD

- Flyback Converter Transformer
- Designed for Broadcom ACPL-32JT and ACPL-302J IGBT Gate Driver
- Compact and cost effective industrial design
- PH9363NL: Basic insulation, 2.8mm creepage
- PH9496NL: Basic insulation, 6.2mm creepage
- PH0416NL: Reinforced insulation, 8.3mm creepage

![Transformer Images]

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance (Pri) (μH ±10%)</th>
<th>Primary Current (A MAX)</th>
<th>Inductance (Sec) (μH ±10%)</th>
<th>DCR (Sec) (Ω MAX)</th>
<th>Leakage Inductance (Pri) (μH Max)</th>
<th>Turns Ratio</th>
<th>Isolated Voltage (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH9363NL</td>
<td>60</td>
<td>1.0</td>
<td>240</td>
<td>0.60</td>
<td>3.0</td>
<td>1:2</td>
<td>2500 / 1 minute</td>
</tr>
<tr>
<td></td>
<td>![PH9363NL Image]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH9496NL</td>
<td>52</td>
<td>1.7</td>
<td>332</td>
<td>0.22</td>
<td>1.2</td>
<td>1:2.53</td>
<td>2500 / 1 minute</td>
</tr>
<tr>
<td></td>
<td>![PH9496NL Image]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH0416NL</td>
<td>43</td>
<td>1.0</td>
<td>172</td>
<td>1.2</td>
<td>2</td>
<td>1:2</td>
<td>5000 / 1 minute</td>
</tr>
</tbody>
</table>

Notes:
1. These transformers are approved by Broadcom to deliver an isolated 18V IGBT drive voltage from an 8V-18V source.
2. Optional Tape & Reel packing can be ordered by adding a "T" suffix to the part number.
3. Other turns ratios and isolation levels available on request.
4. The rated primary current is based on a peak flux density of 220mT.

Mechanical

PH9363NL Schematic

<table>
<thead>
<tr>
<th>Weight</th>
<th>1.4grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape &amp; Reel</td>
<td>500/reel</td>
</tr>
<tr>
<td>Tray</td>
<td>100/tray</td>
</tr>
</tbody>
</table>

Dimensions: mm

Unless otherwise specified, all tolerances are ±0.25
High Isolation Power Transformer
Shaped Core Platform SMD

PH9496NL

PH0416NL

For More Information
Pulse Worldwide Headquarters
15255 Innovation Drive Ste 100
San Diego, CA 92128
U.S.A.

Pulse Europe
Pulse Electronics GmbH
Am Rottland 12
58540 Meinerzhagen
Germany

PH0416NL

Pulse China Headquarters
Pulse Electronics (ShenZhen) Co., LTD
D708, Shenzhen Academy of Aerospace Technology,
The 10th Keji South Road,
Nanshan District, Shenzhen,
P.R. China 518057

Pulse North China
Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Pulse South Asia
3 Fraser Street
0428 DUO Tower
Singapore 189352

Pulse North Asia
1F., No.111 Xiyuan Rd
Zhongli City
Taoyuan City 32057
Taiwan (R.O.C)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2018. Pulse Electronics, Inc. All rights reserved.