

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

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

Part Number	Inductance (Pri) ($\mu\text{H} \pm 10\%$)	Primary Current (A MAX)	Inductance (Sec) ($\mu\text{H} \pm 10\%$)	DCR (Sec) (Ω MAX)	Leakage Inductance (Pri) (μH Max)	Turns Ratio	Isolated Voltage (Vrms)
PH9363NL	60	1.0	240	0.60	3.0	1:2	2500 / 1 minute
PH9496NL	52	1.7	332	0.22	1.2	1:2.53	2500 / 1 minute
PH0416NL	43	1.0	172	1.2	2	1:2	5000 / 1 minute

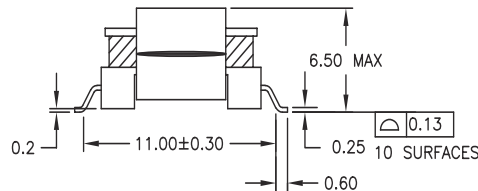
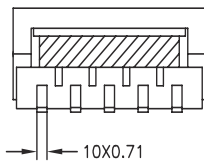
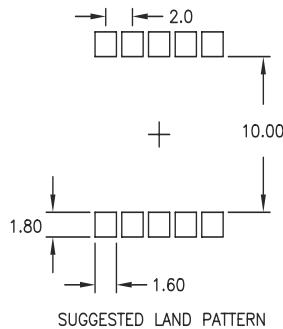
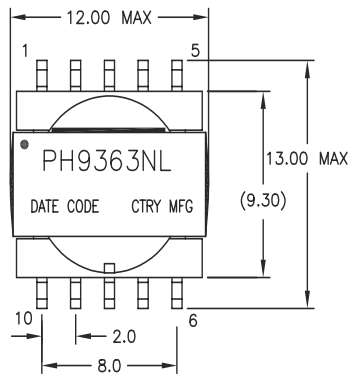
Notes:

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

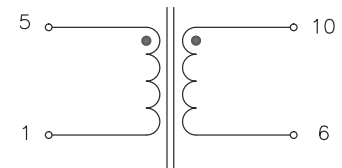
Mechanical

Schematic

PH9363NL



FINAL OUTLINE



Weight1.4grams
Tape & Reel500/reel
Tray100/tray

Dimensions: mm

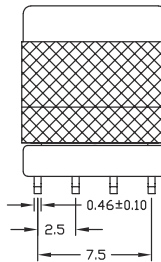
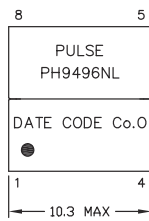
Unless otherwise specified,
all tolerances are±0.25

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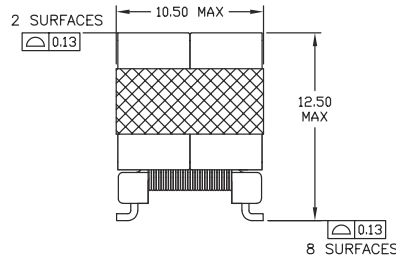
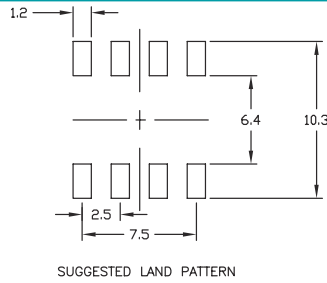
Shaped Core Platform SMD



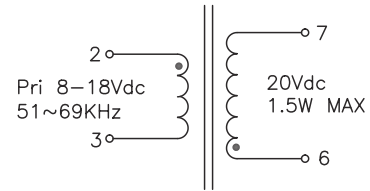
PH9496NL



Mechanical



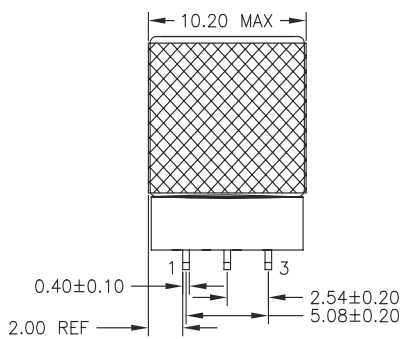
Schematic



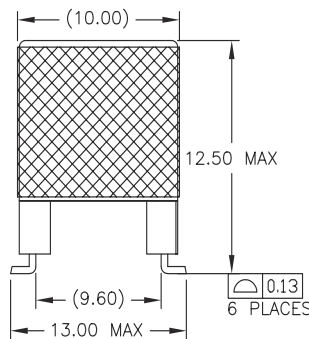
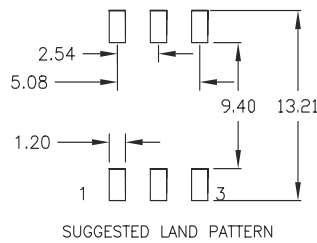
Weight2.6grams
Tape & Reel175/reel
Tray90/tray
Dimensions: mm

Unless otherwise specified,
all tolerances are±0.25

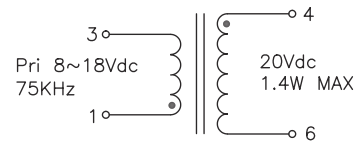
PH0416NL



Mechanical



Schematic



Weight2.6grams
Tape & Reel150/reel
Tray80/tray
Dimensions: mm

Unless otherwise specified,
all tolerances are±0.25

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