

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

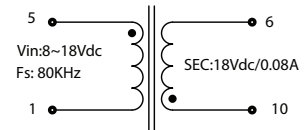
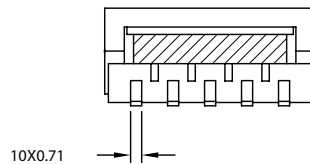
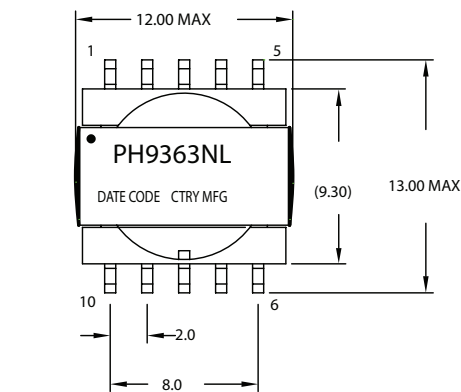
Notes:

- 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.

Mechanical

Schematic

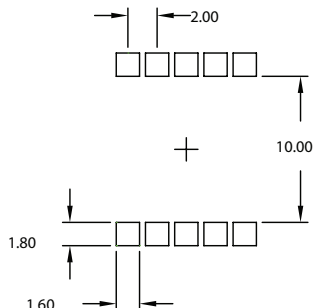
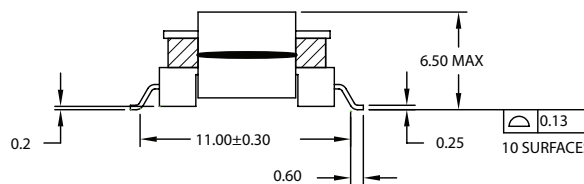
PH9363NL



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

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$



HIGH ISOLATION POWER TRANSFORMER

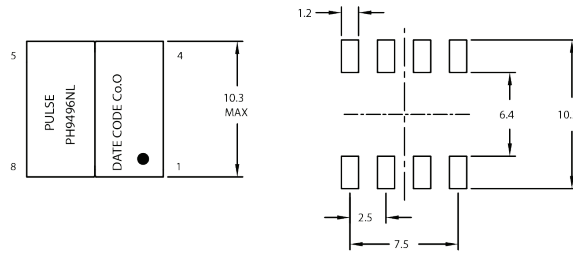
Shaped Core Platform SMD



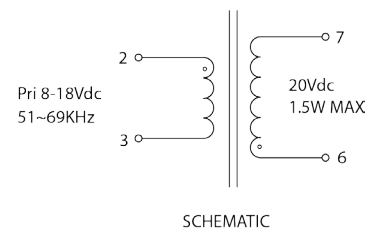
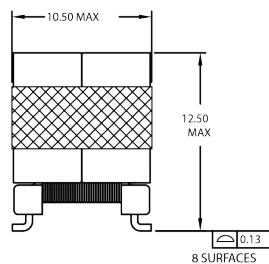
Mechanical

Schematic

PH9496NL



SUGGESTED LAND PATTERN



SCHEMATIC

Weight2.6grams
Tape & Reel175/reel
Tray90/tray

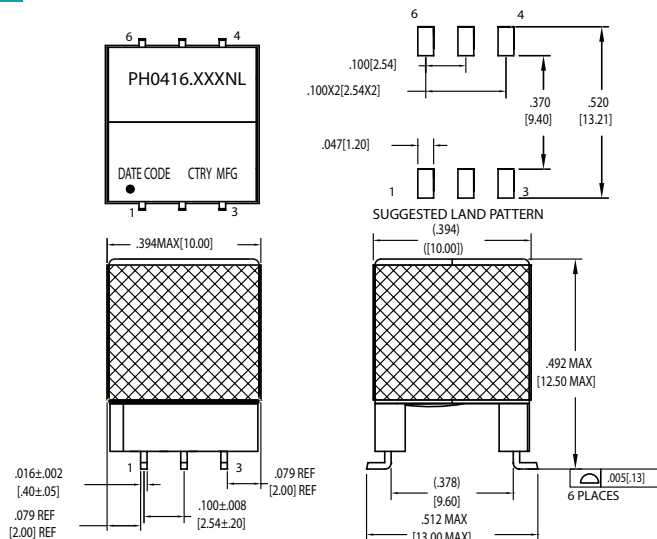
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

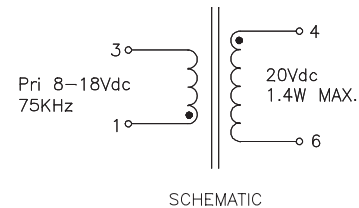
Mechanical

Schematic

PH0416NL



SUGGESTED LAND PATTERN



SCHEMATIC

Weight2.6grams
Tape & Reel150/reel
Tray80/tray

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

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