

# 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) ( $\Omega$ MAX)	Leakage Inductance (Pri) ( $\mu\text{H}$ 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

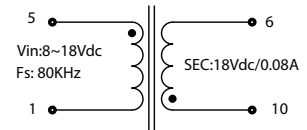
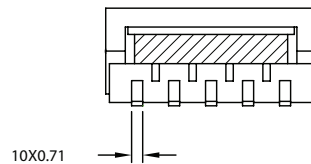
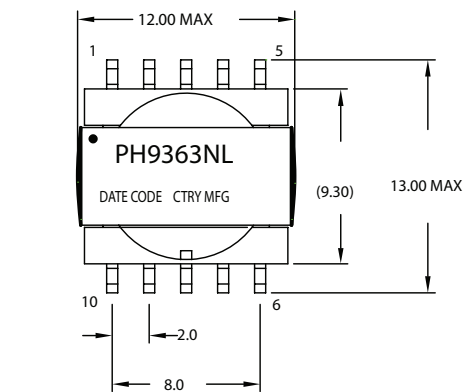
### Notes:

- 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

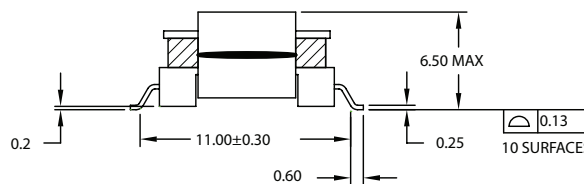
### PH9363NL



Weight .....1.4grams  
Tape & Reel .....500/reel  
Tray .....100/tray

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

Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{.025}$



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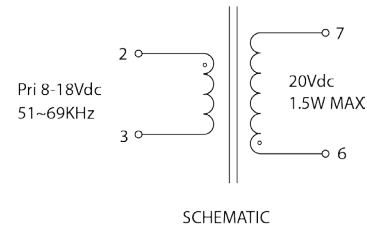
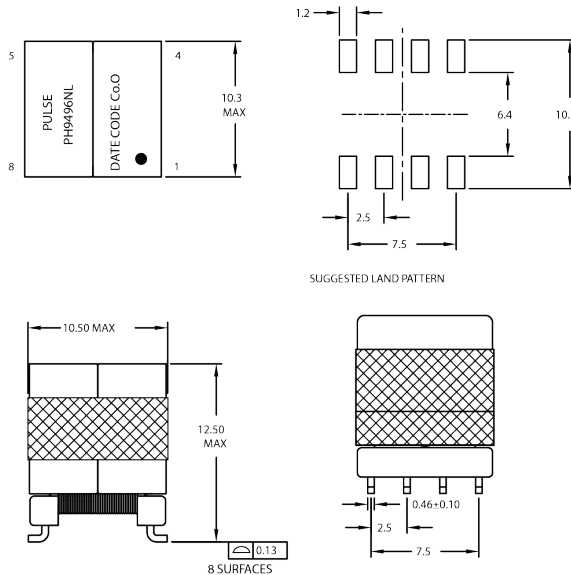
Shaped Core Platform SMD



## Mechanical

## Schematic

### PH9496NL



Weight .....2.6grams  
Tape & Reel .....175/reel  
Tray .....90/tray

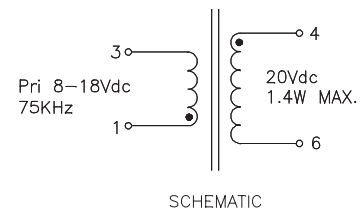
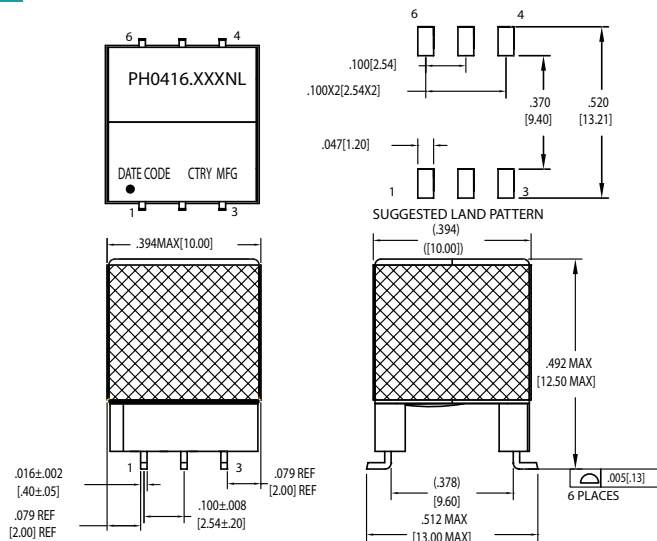
Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0,25}$

## Mechanical

## Schematic

### PH0416NL



Weight .....2.6grams  
Tape & Reel .....150/reel  
Tray .....80/tray

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

Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0,25}$

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