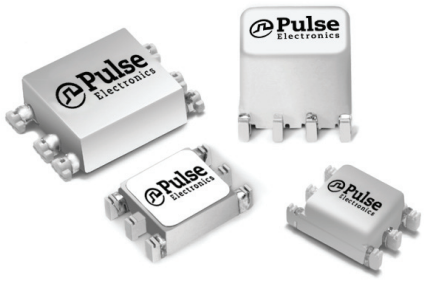
SMT Gate Drive Transformers

PA200xNL Basic and Operational Insulation



- *Higher Volt-µsec capability*
- *Basic insulation (1.4mm creepage/clearance) and operational available*
- *Operating frequency: 50kHz and up*

Electrical Specifications @ 25°C - Operating Temperature -40°C to 130°C [5]

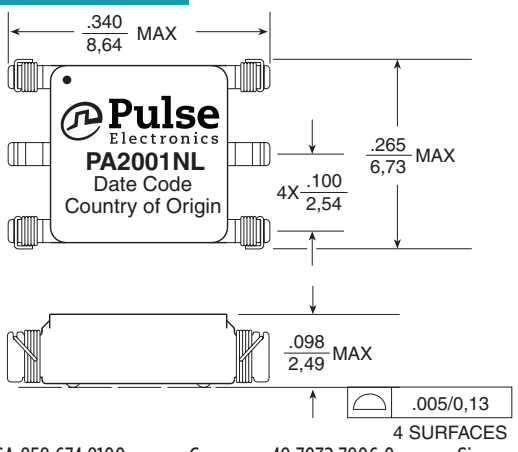
Part [1,2] Number	Turns Ratio	Pri-Sec Insulation (VRMS)	MAX [1] V*µsec	Primary Inductance (µH MIN)	Leakage Inductance (µH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Package Size (L x W x H) (mm MAX)
OPERATIONAL INSULATION								
PA2001NL	1:1	1500	12	403	0.46	0.60	0.60	8.6 x 6.7 x 2.5
PA2002NL	1:1:1	1500	60	1800	0.60	1.60	1.60	9.0 x 8.6 x 7.6
PA2004NL	1:1:1	1500	20	437	0.85	0.85	0.85	8.6 x 6.7 x 3.6
BASIC INSULATION (1.4MM CREEPAGE AND CLEARANCE BETWEEN PRIMARY AND SECONDARY)								
PA2005NL	1:1:1	1500	26	840	0.75	1.05	1.05	11.8 x 8.8 x 4.0
PA2006NL	1:1	1500	26	864	0.75	0.82	0.82	11.8 x 8.8 x 4.0
PA2007NL	1:1	1500	53	1490	0.80	1.15	1.15	9.0 x 8.6 x 7.6
PA2008NL	2:1:1	1500	52	1425	0.80	1.15	0.575	9.0 x 8.6 x 7.6
PA2009NL	2.5:1:1	1500	47	1486	0.80	1.15	0.425	9.0 x 8.6 x 7.6

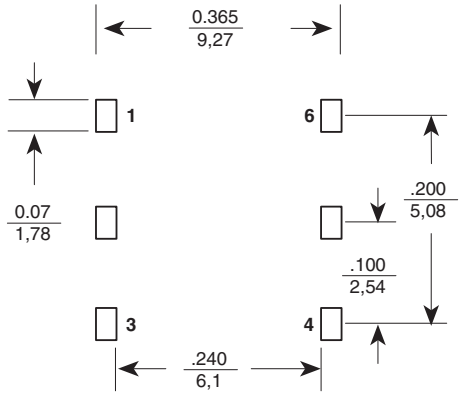
Notes:

1. The maximum volt-µsec limits the peak flux density to 2800 Gauss when used in a unipolar drive application. For bi-polar drive applications, a maximum volt-µsec of two times this rating is acceptable (i.e. 2* (volt*µsec rating) Volt*µsec = (voltage applied to the primary) * dutycycle / Frequency = V * alpha / Freq_ Hz = V * µsec
2. Leakage inductance is measured at primary terminals with all secondaries shorted.
3. Optional Tape & Reel packaging can be ordered by adding a "**T**" suffix to the part number (i.e. PA2002NL becomes PA2002NL**T**). Pulse complies to industry standard tape and reel specification EIA481.
4. The "NL" suffix indicates an RoHS-compliant part number.
5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

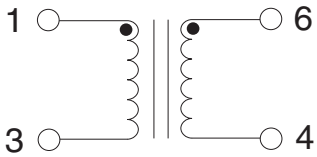
PA2001NL





SUGGESTED PAD LAYOUT

Schematic



Weight .....0.28 grams
Tape & Reel 1500/reel
Tube 60/tube

Dimensions: Inches / mm

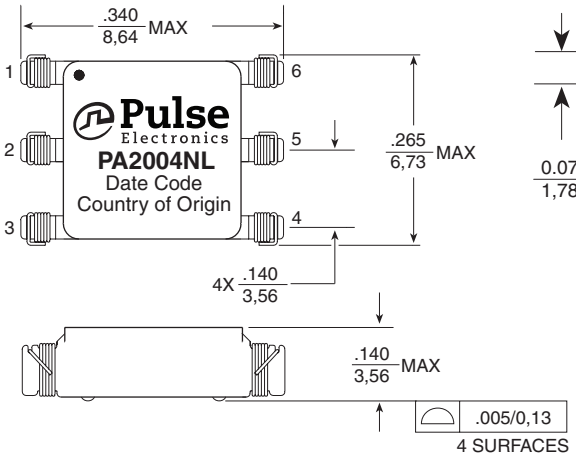
Unless otherwise specified, all tolerances are ±.010 / 0,25

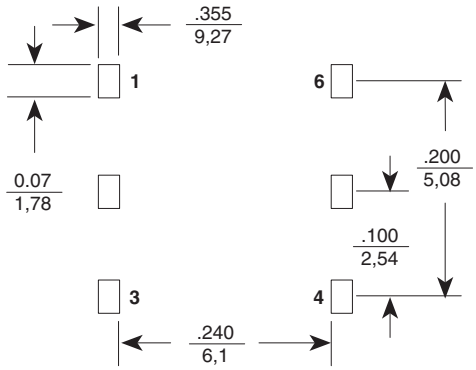
USA 858 674 8100 Germany 49 7032 7806 0 Singapore 65 6287 8998 Shanghai 86 21 62787060 China 86 755 33966678 Taiwan 886 3 4356768

Mechanicals *(CONTINUED)*

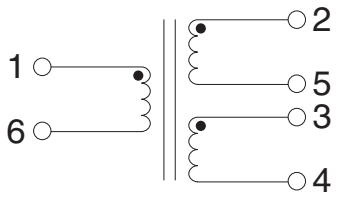
Schematics

PA2004NL





SUGGESTED PAD LAYOUT

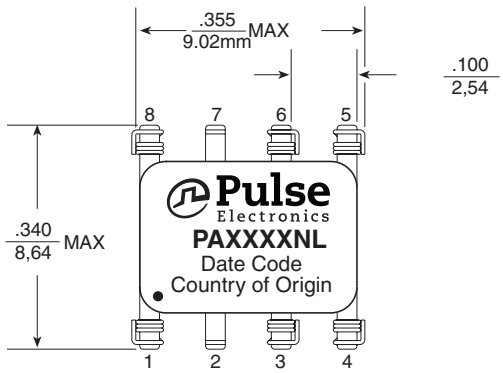


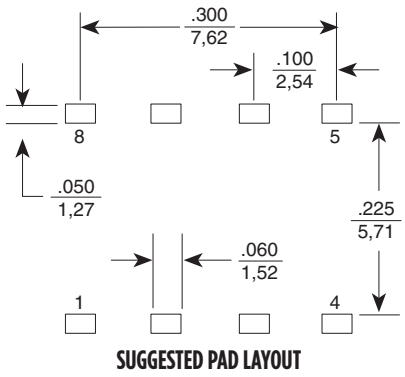
Weight .....0.23 grams
Tape & Reel 800/reel
Tube 75/tube

Dimensions: Inches / mm

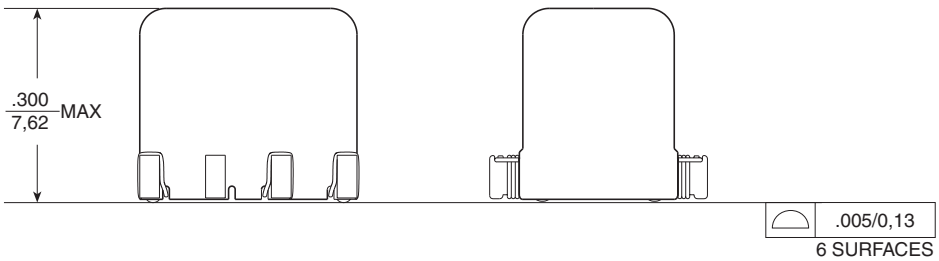
Unless otherwise specified, all tolerances are ± .010 / 0,25

PA2002NL, PA2007NL, PA2008NL, PA2009NL

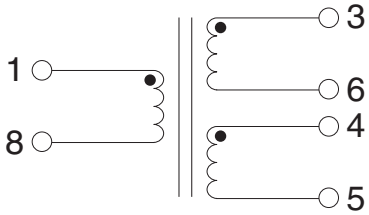




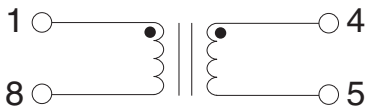
SUGGESTED PAD LAYOUT



PA2002NL / PA2008NL / PA2009NL



PA2007NL



Weight .....0.60 grams
Tape & Reel 400/reel
Tube 50/tube

Dimensions: Inches / mm

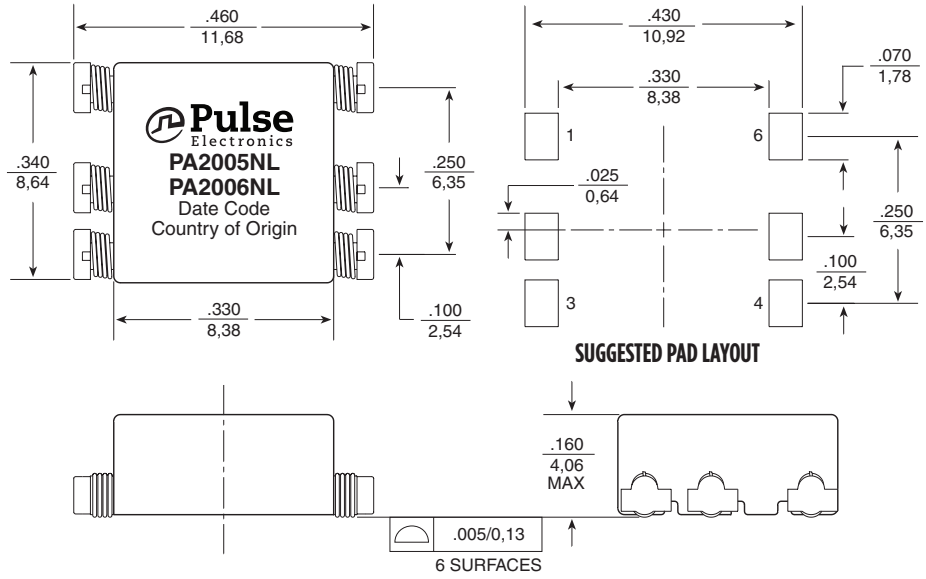
Unless otherwise specified, all tolerances are ± .010 / 0,25

SMT Gate Drive Transformers

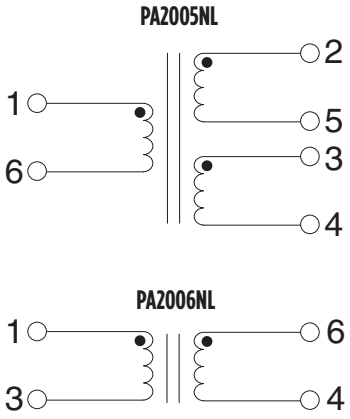
PA200xNL Basic and Operational Insulation

Mechanical *(CONTINUED)*

PA2005NL, PA2006NL



Schematic



Weight .....0.48 grams
Tape & Reel 900/reel
Tube 60/tube

Dimensions: Inches / mm

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

For More Information

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA
92128
U.S.A.

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe
Zeppelinstrasse 15
71083 Herrenberg
Germany

Tel: 49 7032 78060
Fax: 49 7032 7806 135

Pulse China Headquarters
B402, Shenzhen Academy of Aerospace Technology Bldg.
10th Kejinan Road
High-Tech Zone
Nanshan District
Shenzen, PR China
518057
Tel: 86 755 33966678
Fax: 86 755 33966700

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

Tel: 86 21 62787060
Fax: 86 2162786973

Pulse South Asia
135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Tel: 65 6287 8998
Fax: 65 6287 8998

Pulse North Asia
3F, No. 198
Zhongyuan Road
Zhongli City
Taoyuan County 32068
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: 886 3 4356823 (Pulse)
Fax: 886 3 4356820 (FRE)

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, 2014. Pulse Electronics, Inc. All rights reserved.