

SMD Gate Drive Transformer

2700 Vdc Functional Insulation



- 2700VDC insulation between Gate and Drive**
- Operating frequency: 50KHz and up**
- Footprint size: 8.25*6.9*3.0 mm Max**
- Three windings (one drive and two gates)**

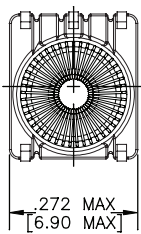
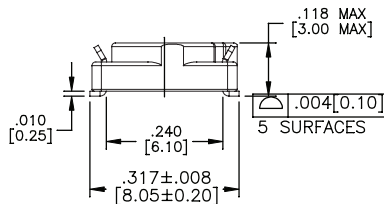
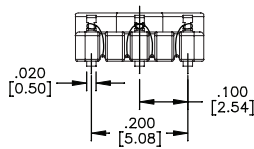
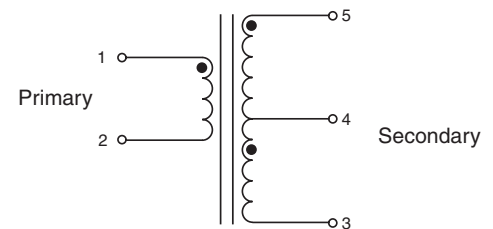
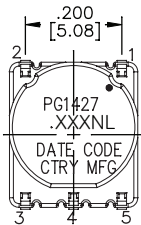
Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Part Number ³	Turns Ratio	Pri-Sec Insulation (VDC)	Max Volt-usec (1-2)	Primary Inductance ² (μH +/-35%)	Leakage Inductance ² (μH MAX)	DCR (1-2) (Ω MAX)	DCR (3-4) (Ω MAX)	DCR (4-5) (Ω MAX)
PG1427.001NL	1:1:1	2700	21.0	780.0	0.4	0.85	0.85	0.85
PG1427.002NL	1:1:1	1500	21.0	780.0	0.4	0.85	0.85	0.85
PG1427.003NL	2:1:1	2300	30.0	1600.0	1.5	1.10	0.65	0.65
PG1427.004NL	1.43:1:1	2300	21.0	820.0	2.0	0.80	0.65	0.65

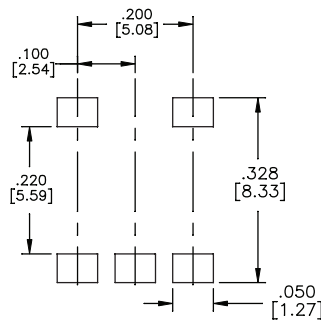
Mechanical

Schematic

PG1427.XXXNL



FINAL OUTLINE



SUGGESTED LAND PATTERN

Weight 0.25 grams
 Tube75/tube
 Tape & Reel 1000/reel

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

Unless otherwise specified,
 all tolerances are $\pm \frac{.005}{0.13}$

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

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Notes

PG1427.XXXNL

1. The Maximum volt- μ sec rating limits the peak flux density to 2500 Gauss when used in a unipolar drive application. For bi-polar drive applications, a maximum volt-sec of 1.5 times this rating is acceptable (ie: volt* μ sec rating = (voltage applied to the primary) * dutycycle / Frequency = V * alpha / Freq_Hz = V * μ sec)
2. All inductance tests measured at 100kHz, 100mV.
Leakage inductance measured from (1-2) with 3,4,5 shorted.
3. Optional Tape & Reel packing can be ordered by adding a "T" suffix to the part number(i.e. PG1427.001NL becomes PG1427.001NLT), Pulse complies to industry standard tape and reel specification EIA481.
4. The temperature of the component (ambient plus thmperature rise) must be within the stated operating temperature range.

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 7806 0
Fax: 49 7032 7806 12

Pulse China Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Road
High-Tech Zone
Nanshan District
Shenzhen, 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 320
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: 886 3 4356823 (Pulse)
Fax: 886 3 4356820 (FRE)

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