

SMT GATE DRIVE TRANSFORMERS

1500Vdc Basic and Operational Insulation



- 1500Vdc isolation between Gate and Drive
- Basic insulation (1.4mm creepage/clearance) and operational available
- Operating frequency: 50kHz and up

Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C⁵

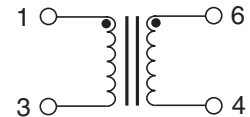
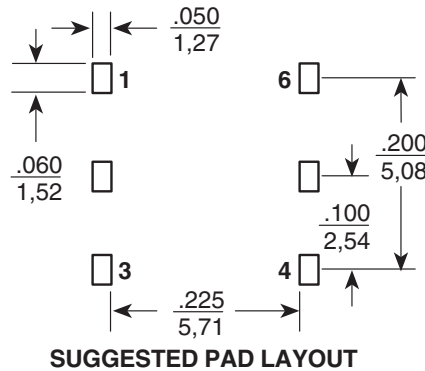
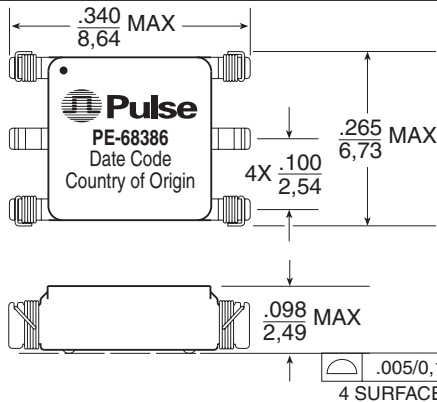
Part ^{3,4} Number	Turns Ratio	Pri-Sec Insulation (Vdc)	MAX ¹ V*µsec	Primary Inductance (µH MIN)	Leakage ² Inductance (µH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Package Size (L x W x H) (mm MAX)
OPERATIONAL INSULATION								
PE-68386NL	1:1	1500	9.7	785	0.46	0.60	0.60	8.6 x 6.7 x 2.5
P0926NL	1:1:1	1500	23.8	300	0.50	2.00	2.00	8.0 x 6.6 x 5.3
P0544NL	1:1:1	1500	45.1	3300	0.70	1.60	1.60	9.0 x 8.6 x 7.6
P2033	1:1	1500	9.3	500	17.00	0.80	0.80	7.2 x 6.1 x 3.8
PA0264NL	1:1:1	1500	12.7	1140	0.65	0.75	0.75	8.6 x 6.7 x 3.6
BASIC INSULATION (1.4 MM CREEPAGE AND CLEARANCE BETWEEN PRIMARY AND SECONDARY)								
PA0173NL	1:1:1	1500 Vrms	17.2	980	0.75	0.62	0.88	11.8 x 8.8 x 4.0
PA0185NL	1:1	1500 Vrms	17.2	980	0.75	0.88	0.62	11.8 x 8.8 x 4.0
PA0184NL	1:1	1500 Vrms	27.2	1200	0.50	0.91	0.91	9.0 x 8.6 x 7.6
PA0297NL	2:1:1	1500 Vrms	27.2	1200	0.60	0.91	0.46	9.0 x 8.6 x 7.6
PA0510NL	2.5:1:1	1500 Vrms	27.2	1200	0.68	0.91	0.380	9.0 x 8.6 x 7.6

NOTES:

1. The maximum volt-µsec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application. For bi-polar drive applications a maximum volt-µsec of two times this rating is acceptable (ie: 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. P0544NL becomes P0544NLT). Pulse complies to industry standard tape and reel specification EIA481.
4. The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact Pulse for availability.
5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

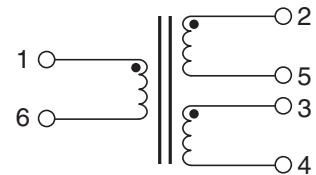
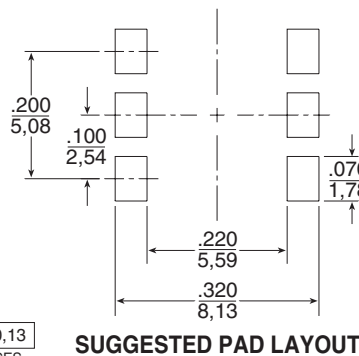
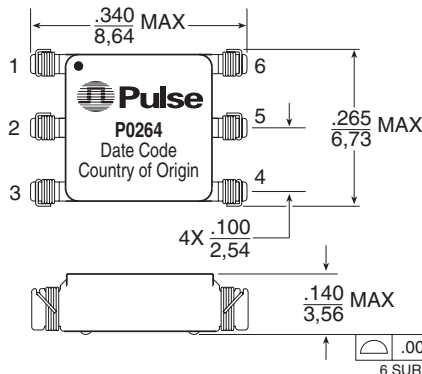
Mechanical

Schematic



Weight028 grams
 Tape & Reel1500/reel
 Tube60/tube

Dimensions: Inches
 mm
 Unless otherwise specified,
 all tolerances are ± .010
 0,25



Weight023 grams
 Tape & Reel800/reel
 Tube75/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 54643211 / 2 • China 86 755 33966678 • Taiwan 886 3 4641811

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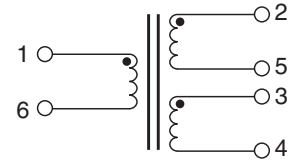
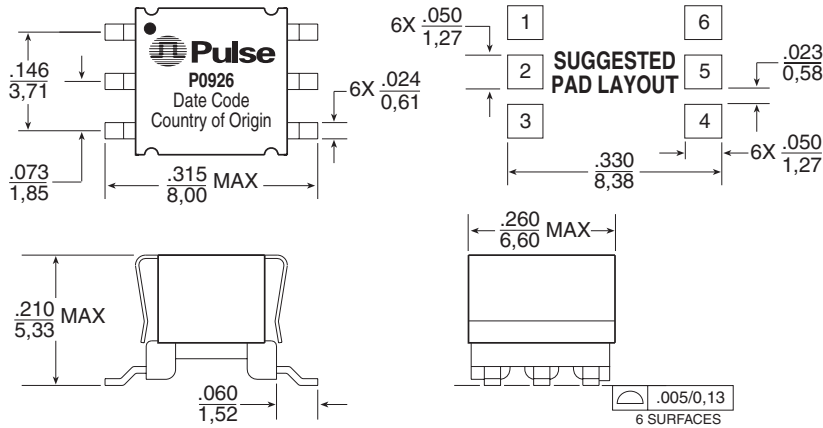
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Pulse
A TECHNITROL COMPANY

Mechanicals

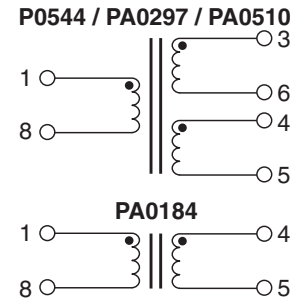
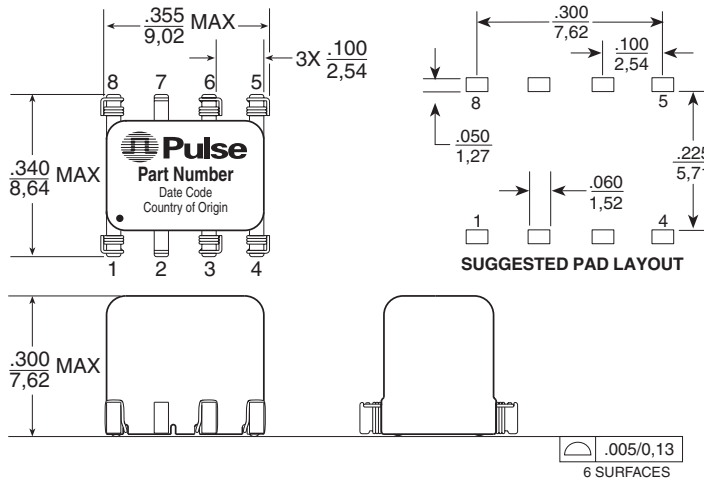
Schematics



Weight0.48 grams
Tape & Reel1000/reel
Tube80/tube

Dimensions: Inches
mm

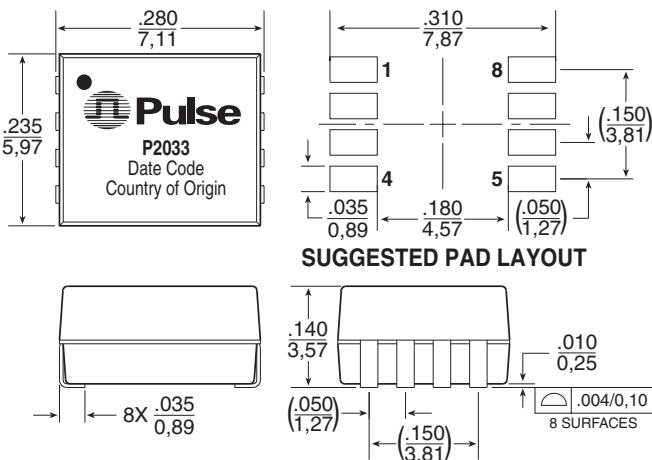
Unless otherwise specified, all tolerances are $\pm .010$
0,25



Weight0.60 grams
Tape & Reel400/reel
Tube50/tube

Dimensions: Inches
mm

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

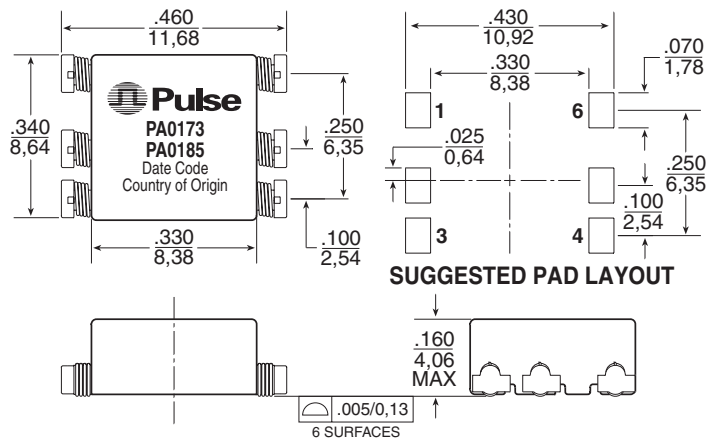
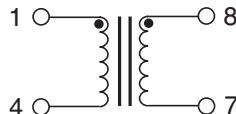


SUGGESTED PAD LAYOUT

Weight0.29 grams
Tape & Reel1200/reel
Tube80/tube

Dimensions: Inches
mm

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

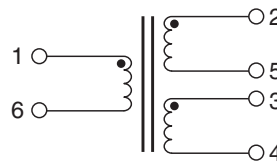


SUGGESTED PAD LAYOUT

Dimensions: Inches
mm

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

PA0173



Weight0.48 grams
Tape & Reel900/reel
Tube60/tube

PA0185

