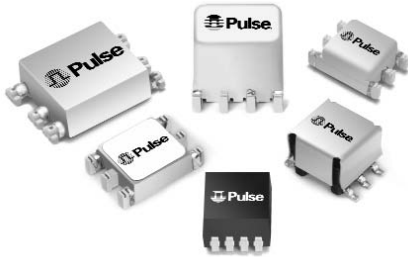


SMT GATE DRIVE TRANSFORMERS

1500Vdc Basic and Operational Insulation



- 1500V_{DC} 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

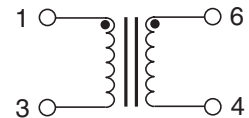
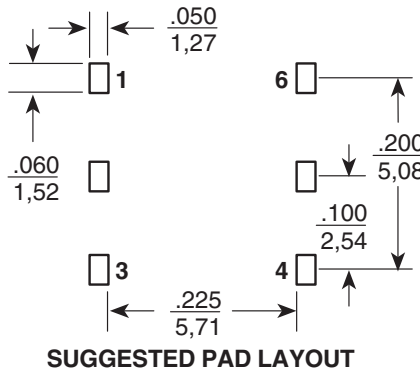
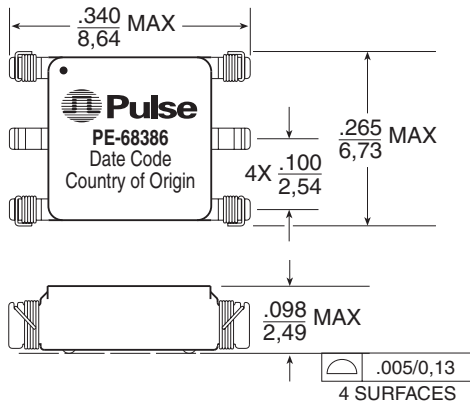
| Part Number ^{3,4} | Turns Ratio | Pri-Sec Insulation (V _{DC}) | MAX ¹ V* μ sec | Primary Inductance (μ H MIN) | Leakage ² Inductance (μ H MAX) | DCR Primary (Ω MAX) | DCR Secondary (Ω MAX) | Package Size (L x W x H) (mm MAX) |
|---------------------------------------------------------------------------------------|-------------|---------------------------------------|-------------------------------|-----------------------------------|------------------------------------------------|-----------------------------|-------------------------------|-----------------------------------|
| OPERATIONAL INSULATION | | | | | | | | |
| PE-68386 | 1:1 | 1500 | 9.7 | 785 | 0.46 | 0.60 | 0.60 | 8.6 x 6.7 x 2.5 |
| P0926 | 1:1:1 | 1500 | 23.8 | 300 | 0.50 | 2.00 | 2.00 | 8.0 x 6.6 x 5.3 |
| P0544 | 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 | 600 | 17.00 | 0.80 | 0.80 | 7.2 x 6.1 x 3.8 |
| PA0264 | 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) | | | | | | | | |
| PA0173 | 1:1:1 | 1500 Vrms | 17.2 | 980 | 0.75 | 0.62 | 0.88 | 11.8 x 8.8 x 4.0 |
| PA0185 | 1:1 | 1500 Vrms | 17.2 | 980 | 0.75 | 0.88 | 0.62 | 11.8 x 8.8 x 4.0 |
| PA0184 | 1:1 | 1500 Vrms | 27.2 | 1200 | 0.50 | 0.91 | 0.91 | 9.0 x 8.6 x 7.6 |
| PA0297 | 2:1:1 | 1500 Vrms | 27.2 | 1200 | 0.60 | 0.91 | 0.46 | 9.0 x 8.6 x 7.6 |
| PA0510 | 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- μ sec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application. For bi-polar drive applications a maximum volt- μ sec of two times this rating is acceptable (ie: 2* (volt* μ sec rating) Volt* μ sec = (voltage applied to the primary) * dutycycle / Frequency = V * alpha / Freq_Hz = V * μ sec
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. P0544 becomes P0544T). Pulse complies to industry standard tape and reel specification EIA481.
4. RoHS compliant parts are being introduced. Please contact Pulse for RoHS compliant part availability. If available, order part by adding the suffix "NL" to the part number (i.e. P0544 becomes P0544NL and P0544T becomes P0544NLTL).
5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

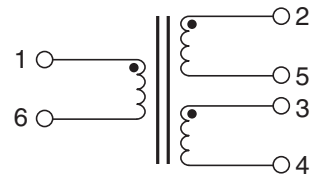
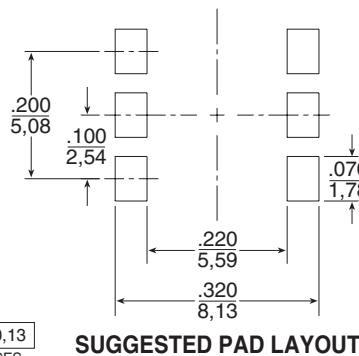
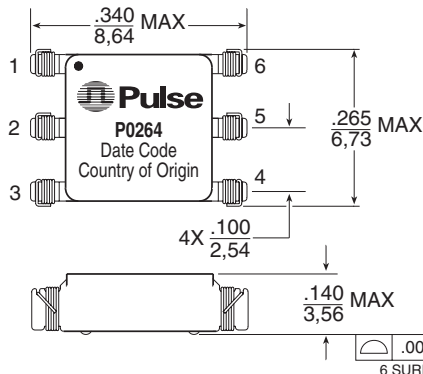
Mechanical

Schematic



Weight0.28 grams
 Tape & Reel1500/reel
 Tube60/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified,
 all tolerances are $\pm \frac{.010}{0.25}$



Weight0.23 grams
 Tape & Reel800/reel
 Tube75/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified,
 all tolerances are $\pm \frac{.010}{0.25}$

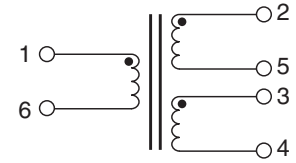
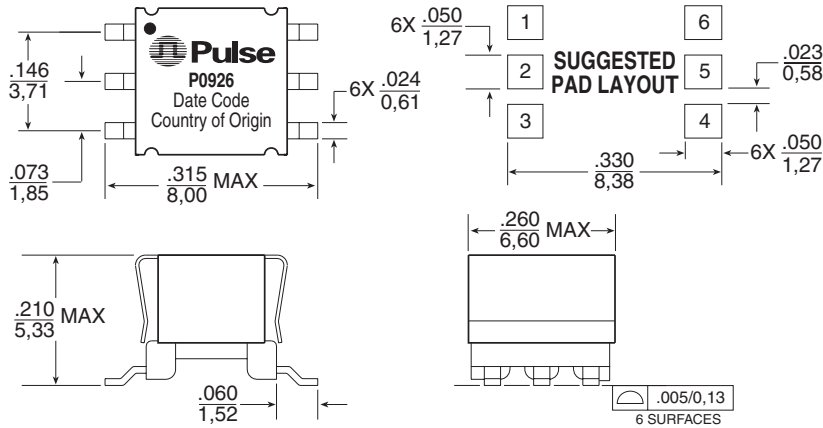
SMT GATE DRIVE TRANSFORMERS

1500Vdc Basic and Operational Insulation



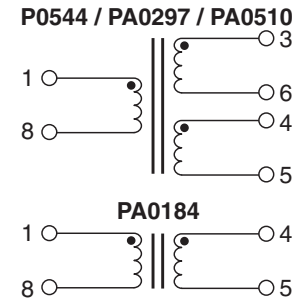
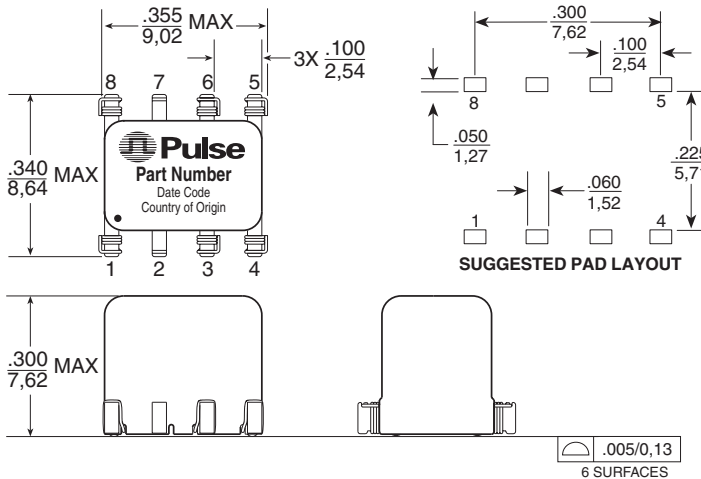
Mechanicals

Schematics



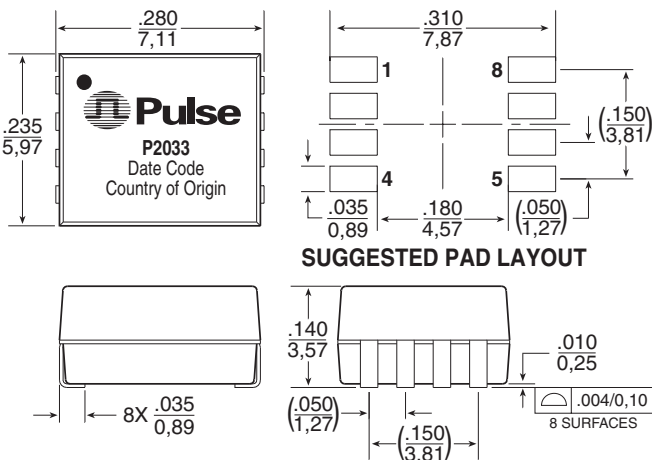
Weight0.48 grams
Tape & Reel1000/reel
Tube80/tube

Dimensions: Inches
mm
Unless otherwise specified, all tolerances are $\pm .010$
0,25



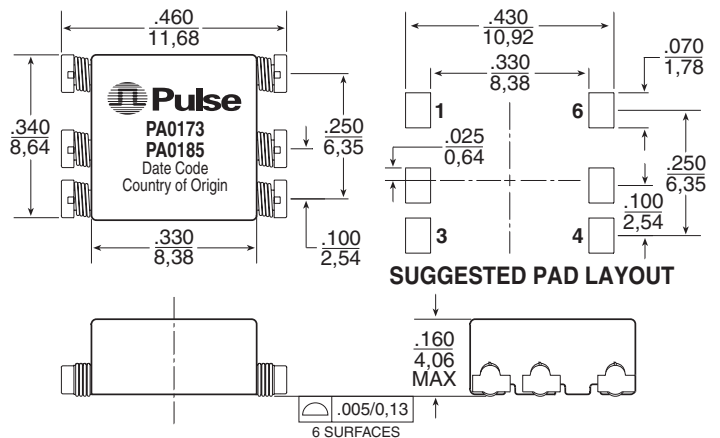
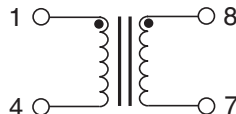
Weight0.60 grams
Tape & Reel400/reel
Tube50/tube

Dimensions: Inches
mm
Unless otherwise specified, all tolerances are $\pm .010$
0,25

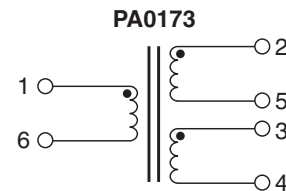


Weight0.29 grams
Tape & Reel1200/reel
Tube80/tube

Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are $\pm .010$
0,25



Dimensions: Inches
mm
Unless otherwise specified, all tolerances are $\pm .010$
0,25



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

