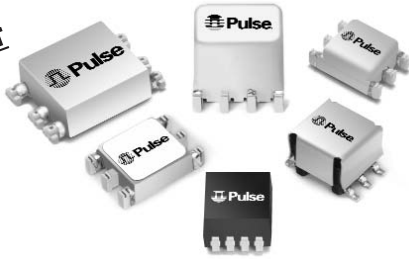





# SMT GATE DRIVE TRANSFORMERS

## 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°C

Part <sup>3,4</sup> Number	Turns Ratio	Pri-Sec Insulation (Vdc)	MAX <sup>1</sup> V*µsec	Primary Inductance (µH MIN)	Leakage <sup>2</sup> Inductance (µH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Package Size (L x W x H) (mm MAX)
<b>OPERATIONAL INSULATION</b>								
PE-68386	1:1	1500	9.7	785	0.36	0.60	0.52	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	3950	0.70	1.60	1.60	9.0 x 8.6 x 7.6
PA0264	1:1:1	1500	12.7	1140	0.65	0.75	0.75	8.6 x 6.7 x 3.6
<b>BASIC INSULATION (1.4 MM CREEPAGE AND CLEARANCE BETWEEN PRIMARY AND SECONDARY)</b>								
P2033	1:1	1500	9.3	600	17.00	0.80	0.80	7.2 x 6.1 x 3.8
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	1400	0.50	1.50	1.50	9.0 x 8.6 x 7.6
PA0297	2:1:1	1500 Vrms	27.2	1400	0.60	0.91	0.46	9.0 x 8.6 x 7.6
PA0510	2.5:1:1	1500 Vrms	27.2	1250	0.68	0.77	0.318	9.0 x 8.6 x 7.6

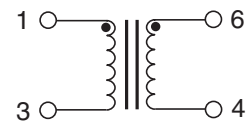
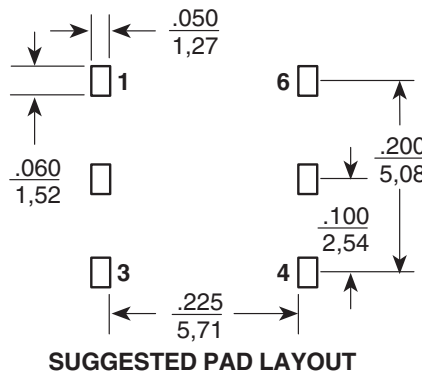
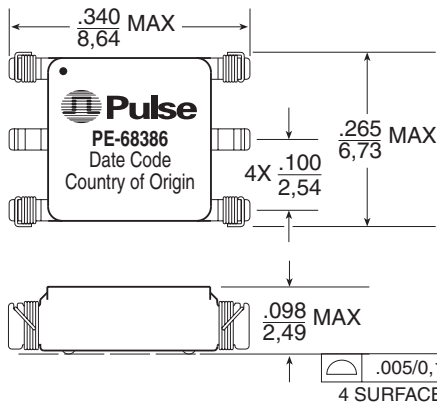
**NOTES:**

- 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
- Leakage inductance is measured at primary terminals with all secondaries shorted.

- 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.
- 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 P0544NLT).

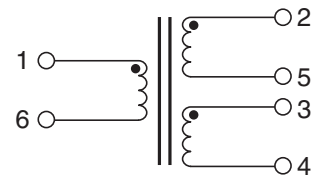
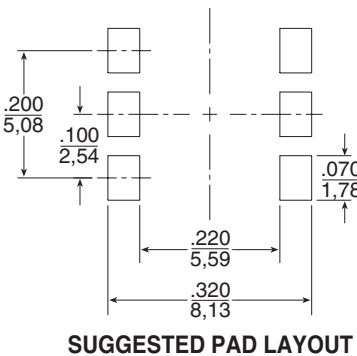
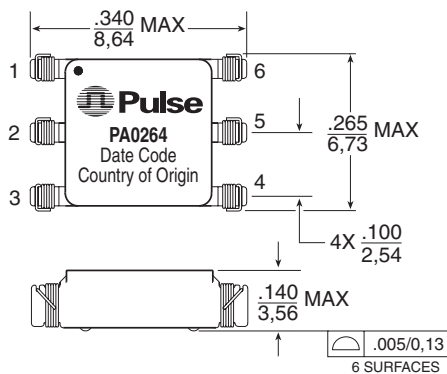
### Mechanical

### Schematic



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

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



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

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

# SMT GATE DRIVE TRANSFORMERS

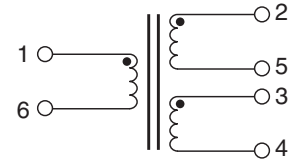
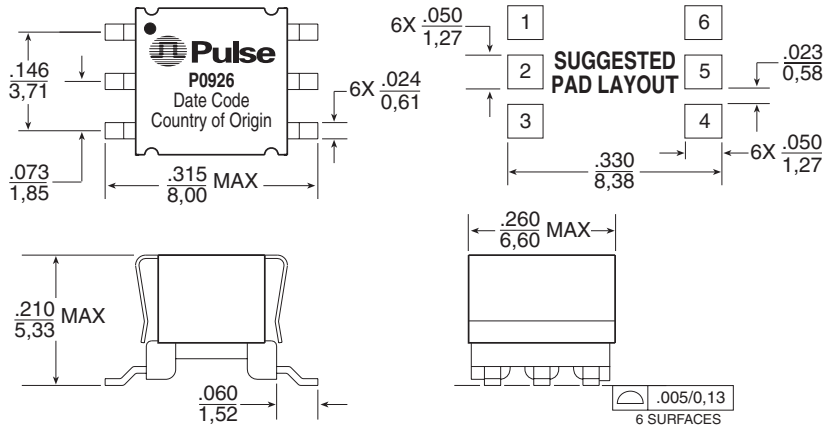
## 1500Vdc Basic and Operational Insulation



**Pulse**®  
A TECHNITROL COMPANY

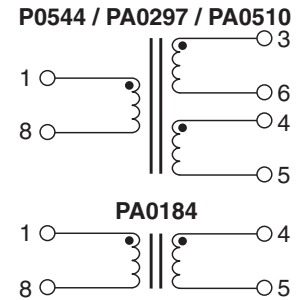
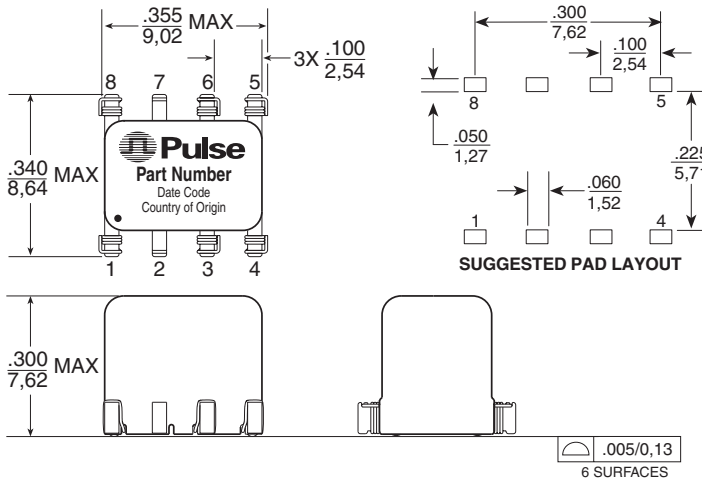
### Mechanicals

### Schematics



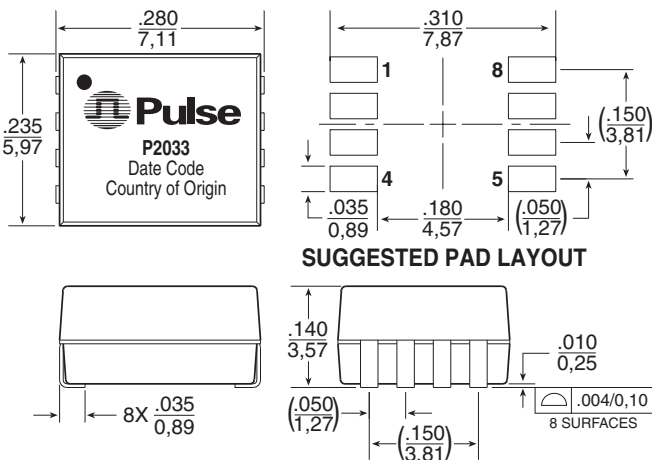
Weight . . . . .0.48 grams  
Tape & Reel . . . . .1000/reel  
Tube . . . . .80/tube

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



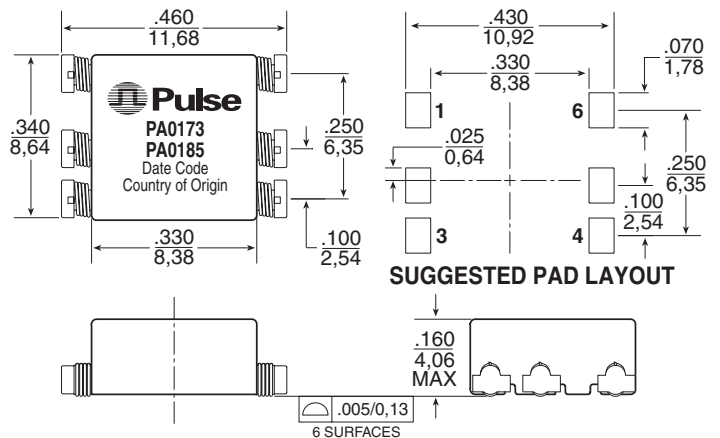
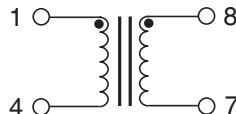
Weight . . . . .0.60 grams  
Tape & Reel . . . . .400/reel  
Tube . . . . .50/tube

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

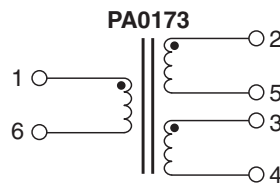


Weight . . . . .0.29 grams  
Tape & Reel . . . . .1200/reel  
Tube . . . . .80/tube

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



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



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

