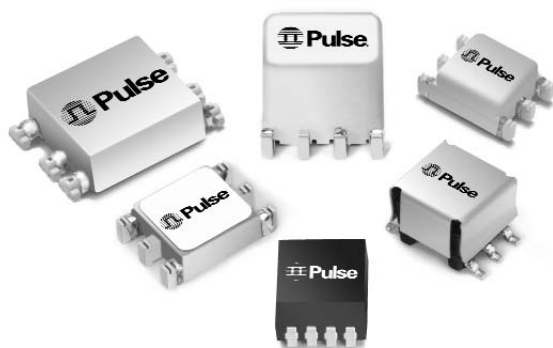


SMT GATE DRIVE TRANSFORMERS

1500V_{DC} 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°C

Part Number	Turns Ratio	Pri-Sec Insulation (V _{bc})	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-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	330	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
BASIC INSULATION (1.4 MM CREEPAGE AND CLEARANCE BETWEEN PRIMARY AND SECONDARY)								
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 ⁴	17.2	980	0.75	0.62	0.88	11.8 x 8.8 x 4.0
PA0185	1:1	1500 ⁴	17.2	980	0.75	0.88	0.62	11.8 x 8.8 x 4.0
PA0184	1:1	1500 ⁴	27.2	1400	0.50	1.50	1.50	9.0 x 8.6 x 7.6
PA0297	2:1:1	1500 ⁴	27.2	1400	0.60	0.91	0.46	9.0 x 8.6 x 7.6
PA0510	2.5:1:1	1500 ⁴	27.2	1250	0.68	0.77	0.318	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 * usec

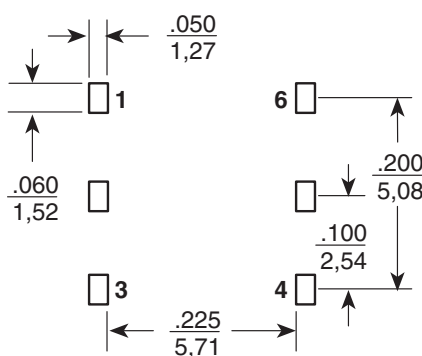
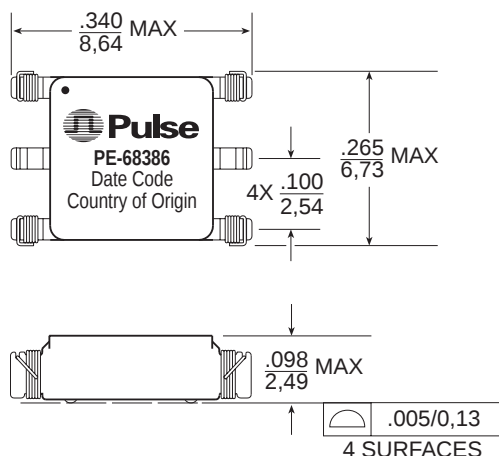
2. The leakage inductance is measured at the primary terminals with all secondaries shorted.

3. Add suffix "T" to part number for Tape & Reel package (ie: P0544T).

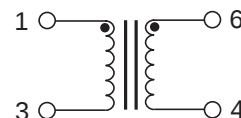
4. V_{RMS}

Mechanical

Schematic



SUGGESTED PAD LAYOUT



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

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

Unless otherwise specified,
 all tolerances are $\pm \frac{.010}{0.25}$

SMT GATE DRIVE TRANSFORMERS

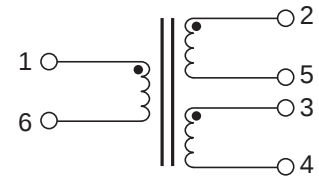
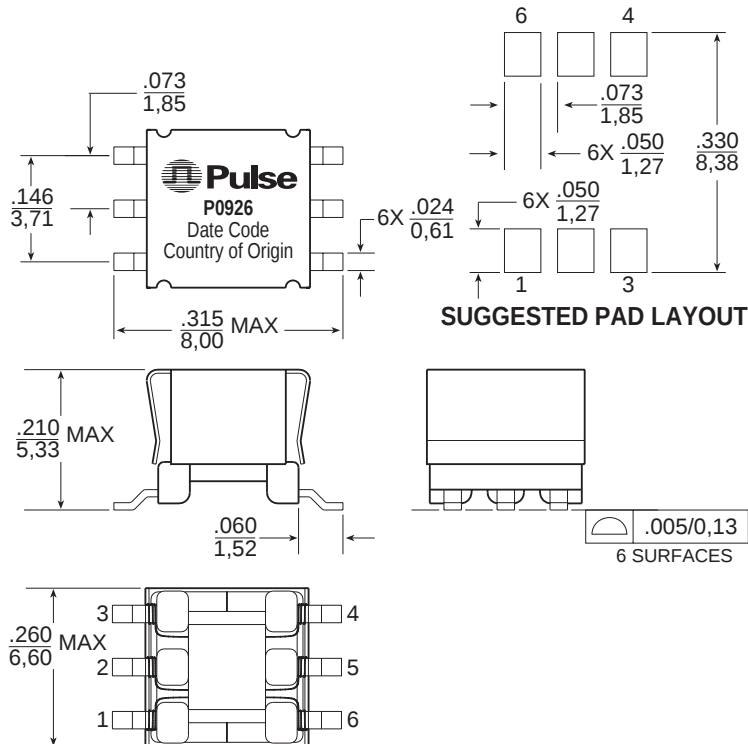
1500V_{DC} Basic and Operational Insulation



Pulse
A TECHNITROL COMPANY

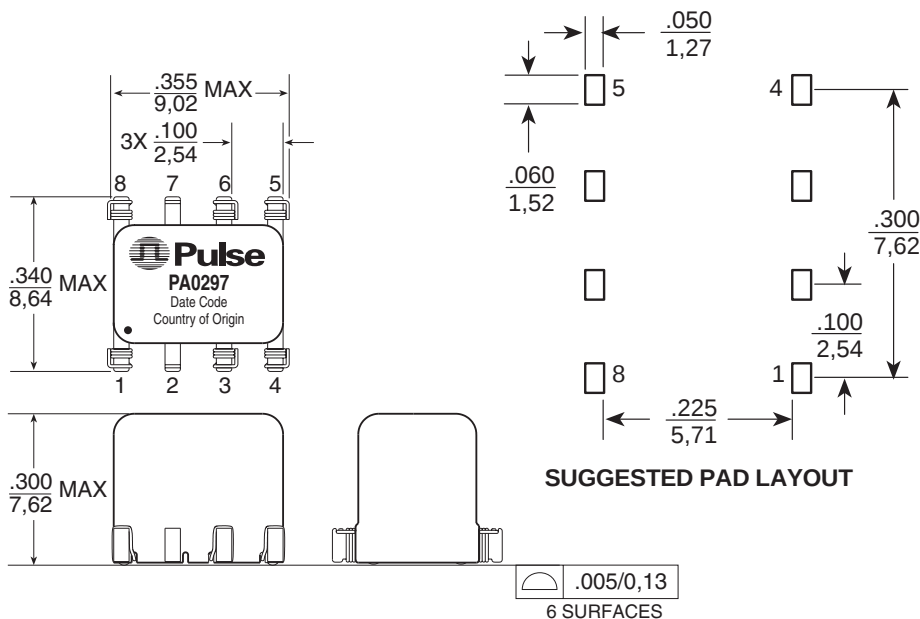
Mechanicals

Schematics

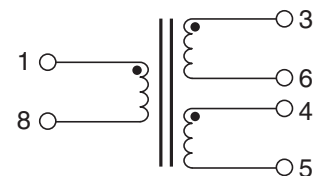


Weight048 grams
Tape & Reel1000/reel
Tube80/tube

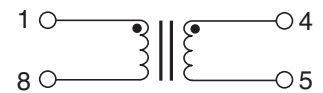
Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are $\pm .010$
0,25



P0544 / PA0297 / PA0510



PA0184



Weight060 grams
Tape & Reel400/reel
Tube50/tube

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

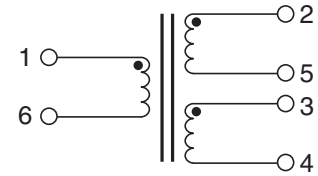
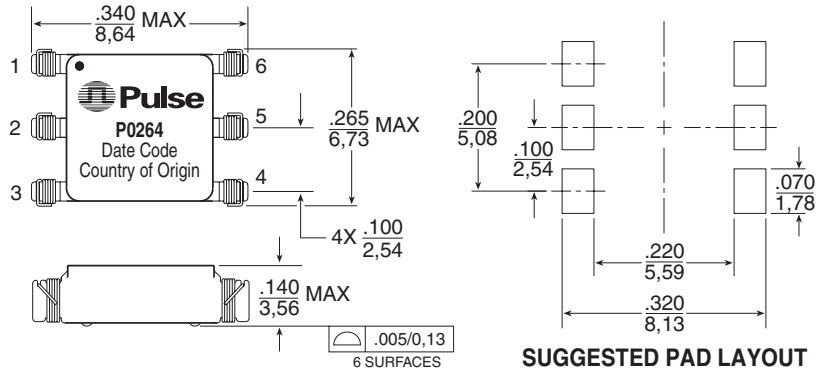
SMT GATE DRIVE TRANSFORMERS

1500VDC Basic and Operational Insulation

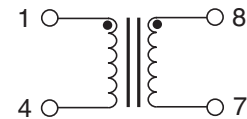
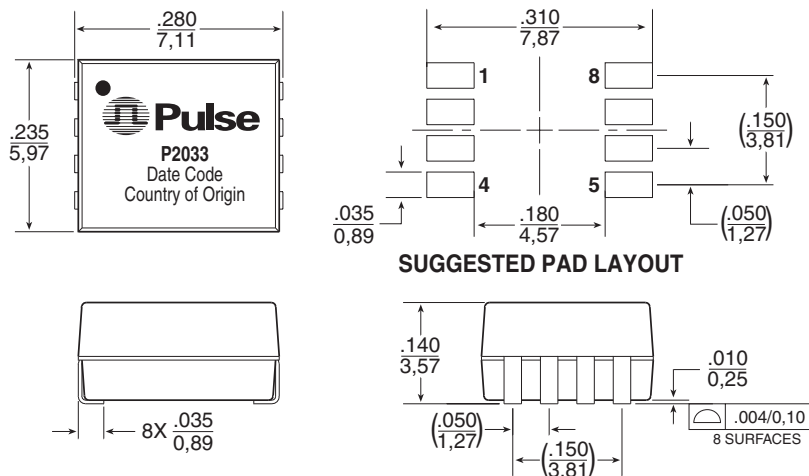


Mechanicals

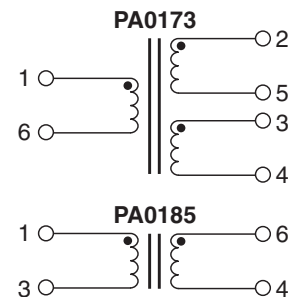
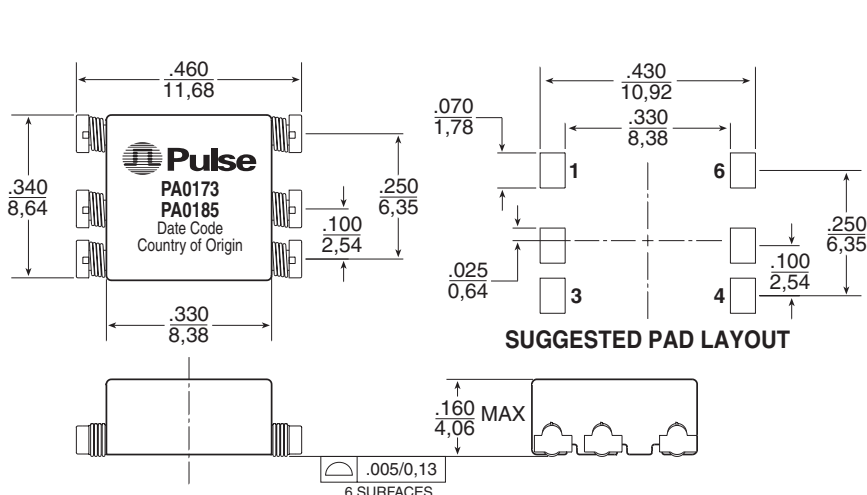
Schematics



Weight0.23 grams
Tape & Reel800/reel
Tube75/tube
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$



Weight0.29 grams
Tape & Reel1200/reel
Tube80/tube
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$



Weight0.48 grams
Tape & Reel900/reel
Tube60/tube
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$