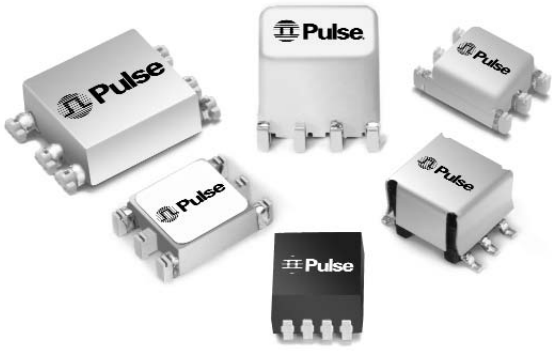
SMT GATE DRIVE TRANSFORMERS
1500VDC Basic and Operational Insulation

Pulse
A TECHNITROL COMPANY



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

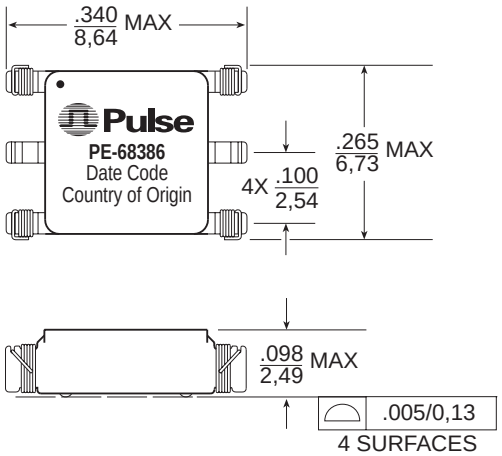
Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C

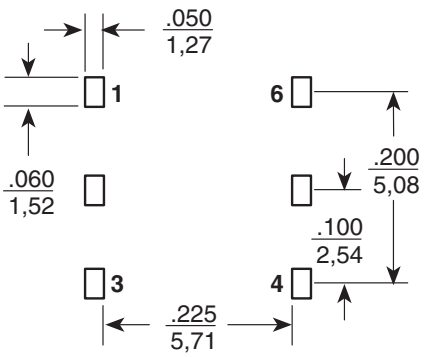
Part Number	Turns Ratio	Pri-Sec Insulation (VDC)	MAX [1] V*µsec	Primary Inductance (µH MIN)	Leakage [2] Inductance (µH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Package Size (L x W x H) (mm MAX)
OPERATIONAL INSULATION								
PE-68386	1:1	1500	9.7	785	0.36	0.60	0.52	8.6 x 6.7 x 2.5
P0926	1:1:1	1500	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 / Frequecy = 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: P0544**T**).
4. VRMS

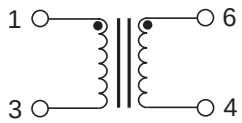
Mechanical





SUGGESTED PAD LAYOUT

Schematic



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

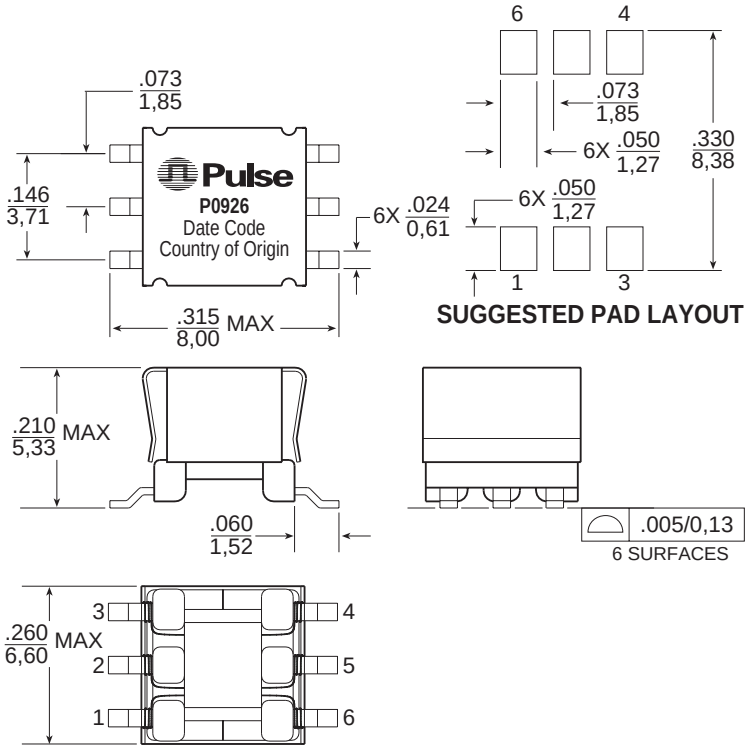
Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

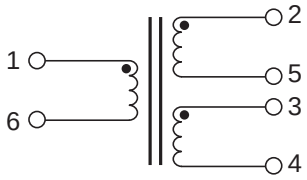
SMT GATE DRIVE TRANSFORMERS
1500VDC Basic and Operational Insulation

Pulse
A TECHNITROL COMPANY

Mechanicals

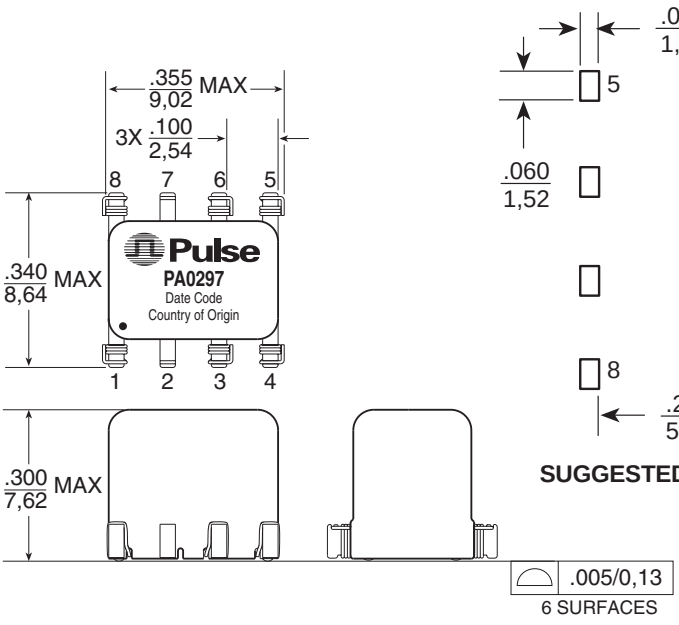


Schematics

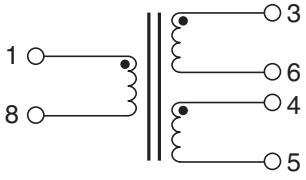


Weight . . . . . .0.48 grams
Tape & Reel 1000/reel
Tube 80/tube

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



P0544 / PA0297 / PA0510



PA0184

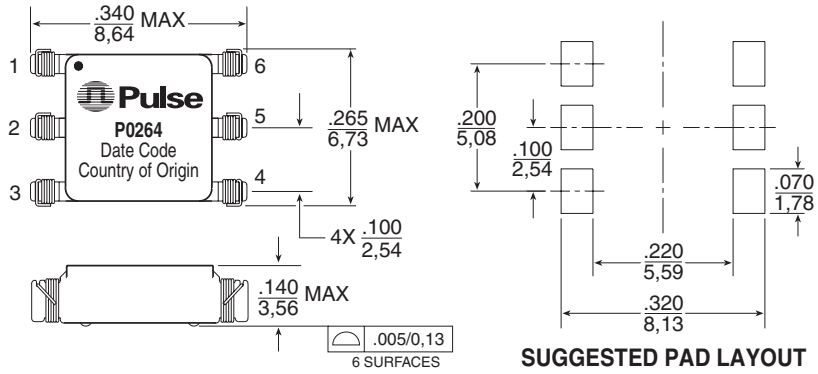
Weight . . . . . .0.60 grams
Tape & Reel 400/reel
Tube 50/tube

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

SMT GATE DRIVE TRANSFORMERS
1500VDC Basic and Operational Insulation

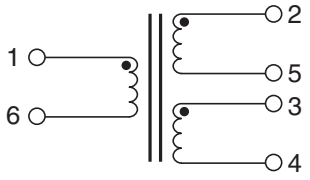
Pulse
A TECHNITROL COMPANY

Mechanicals



SUGGESTED PAD LAYOUT

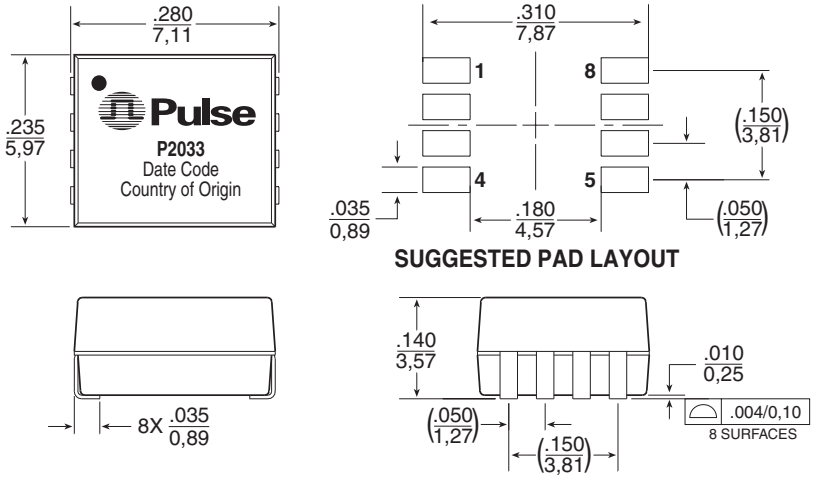
Schematics



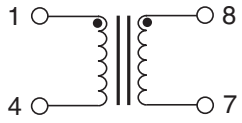
Weight . . . . . .0.23 grams
Tape & Reel 800/reel
Tube 75/tube

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25



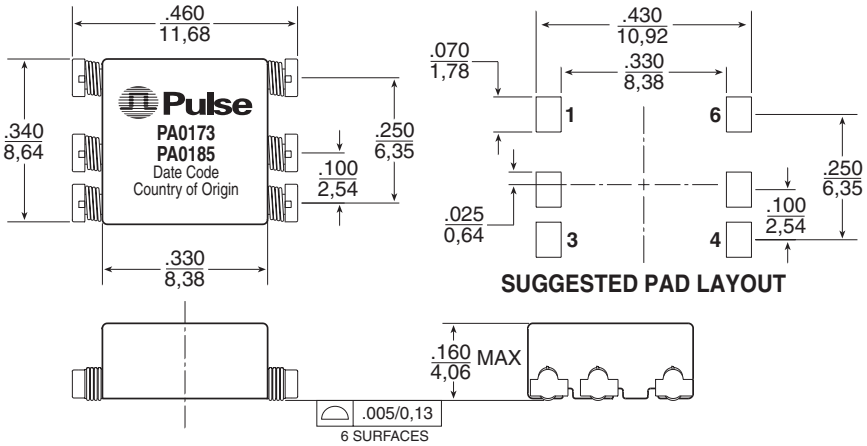
SUGGESTED PAD LAYOUT



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

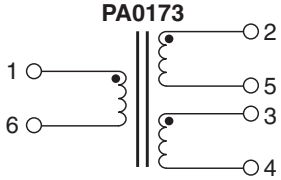
Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

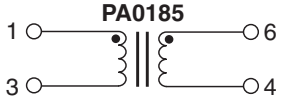


SUGGESTED PAD LAYOUT

PA0173



PA0185



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

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25