SMT GATE DRIVE TRANSFORMERS

Ruggedized

PulseR Ruggedized Solutions

PL207X

- Operating & Storage Temperature: -55°C to +125°C
- 1500Vrms (380Vrms continuous)
- Basic Insulation (1.4mm creepage/clearance and operational available)
- Tin/Lead Finish: Sn63/Pb37
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C - Operating Temperature - 55°C to 125°C[5]

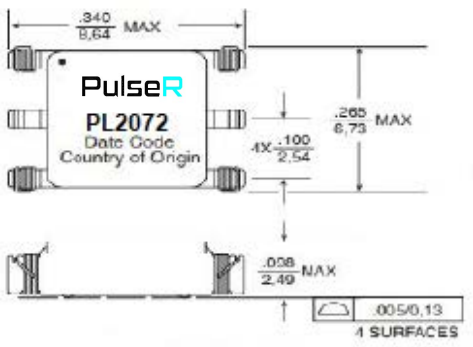
Part Number	Turns Ratio	Pri-Sec Insulation (VRMS)	MAX[1] V*µsec	Primary Inductance (µH MIN)	Leakage Inductance (µH Max)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Package Size (LxWxH) (mm MAX)
PL2072	1:1	1500	12	403	0.46	0.60	0.60	8.6 x 6.7 x 2.5
PL2073	1:1:1	1500	20	437	0.85	0.85	0.85	8.6 x 6.7 x 3.6

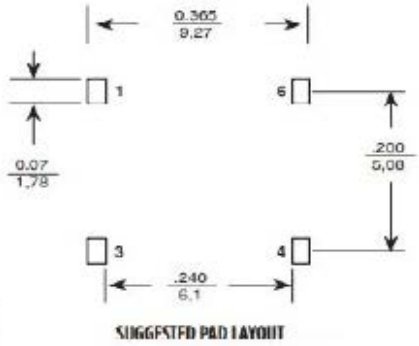
Notes:

1. The maximum volt-µsec limits the peak flux density to 2800 Gauss when used in a unipolar drive application.
For bi-polar drive applications, a maximum volt-µse c of two times this rating is acceptable:-
(i.e. 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. PL2072 becomes PL2072T).
4. Add suffix "NL" for RoHS compliant part: i.e. PL2072 and PL2073 becomes PL2072NL and PL2073NL.
5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
6. Continuous isolation voltage confirmed by 125°C/1000hrs accelerated aging with the bias voltage applied between primary and secondary windings.

PL2072

Mechanical





Schematic

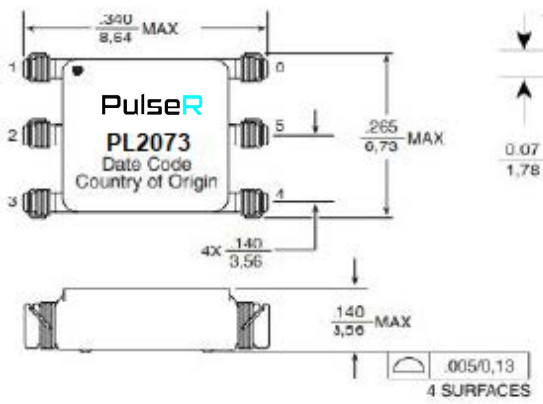
Weight ..... 0.28 grams
Tape & Reel 1500/reel
Tube 60/tube

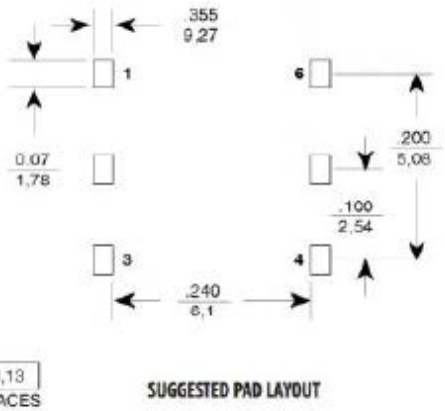
Dimensions: Inches / mm

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

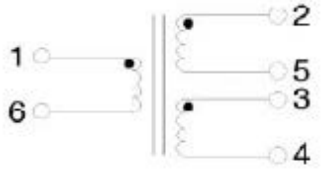
PL2073

Mechanical





Schematic

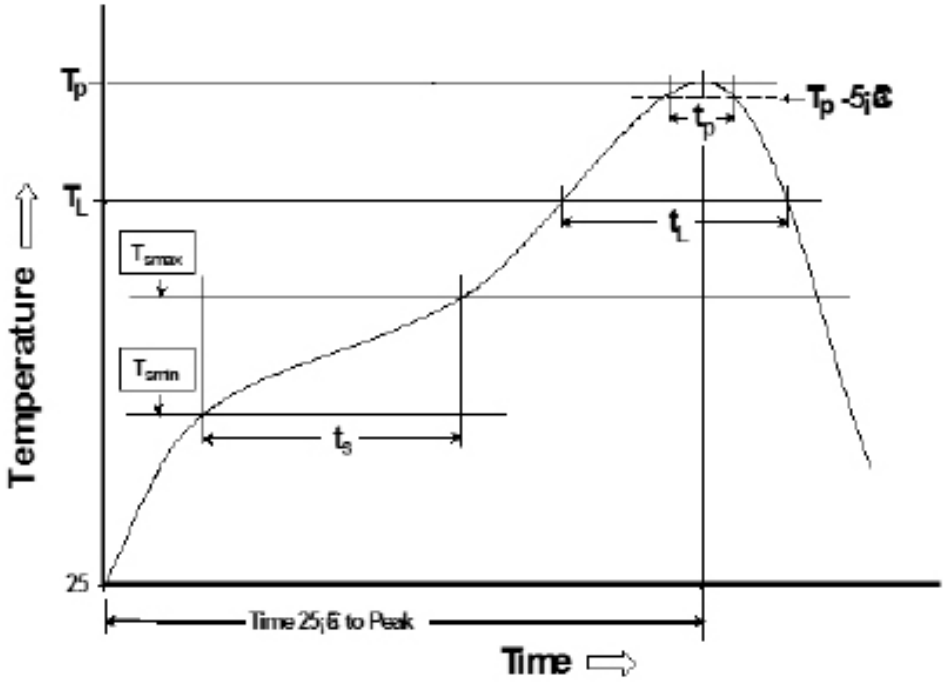


Weight ..... 0.23 grams
Tape & Reel 800/reel
Tube 75/tube

Dimensions: Inches / mm

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

Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



T_{SMIN} (°C)	T_{SMAX} (°C)	T_L (°C)	T_P (°C MAX)	t_S (s)	t_L (s)	t_P (s MAX)	Ramp-up rate (T_L to T_P)	Ramp-down rate (T_P to T_L)	Time 25°C to peak temperature (s MAX)
100	150	183	235	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:
1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

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