

SMT GATE DRIVE TRANSFORMERS

Ruggedized



- ⊗ 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 °C⁵

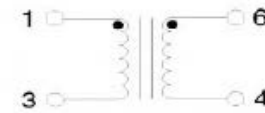
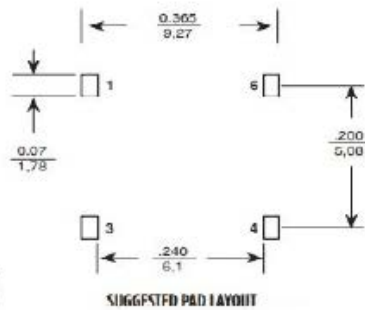
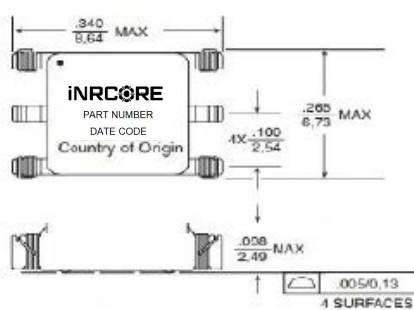
Part Number	Turns Ratio	Pri-Sec Insulation (VRMS)	MAX ¹ V* μ sec	Primary Inductance (μ H MIN)	Leakage Inductance (μ H Max)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Package Size (LxWxH) (mm MAX)
PL2072	1:1	1500	12	403	0.46	0.60	0.60	8.6 x 6.7 x 2.5
PL2073	1:1:1	1500	20	437	0.85	0.85	0.85	8.6 x 6.7 x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

- Notes:
- The maximum volt- μ sec limits the peak flux density to 2800 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:-
(i.e. 2* (volt* μ sec rating) Volt* μ sec = (voltage applied to the primary) * dutycycle / Frequency =V* alpha/ Freq_Hz =V* μ sec.
 - 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. PL2072 becomes **PL2072T**).
 - Add suffix "NL" for RoHS compliant part: i.e. PL2072 and PL2073 becomes **PL2072NL** and **PL2073NL**.
 - The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
 - Continuous isolation voltage confirmed by 125°C/1000hrs accelerated aging with the bias voltage applied between primary and secondary windings.

Mechanical

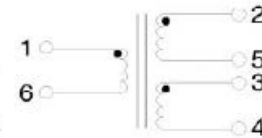
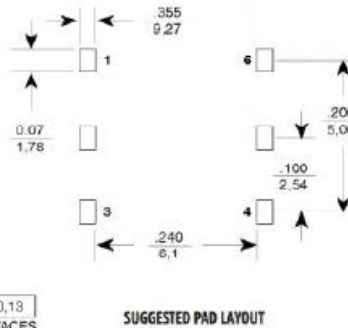
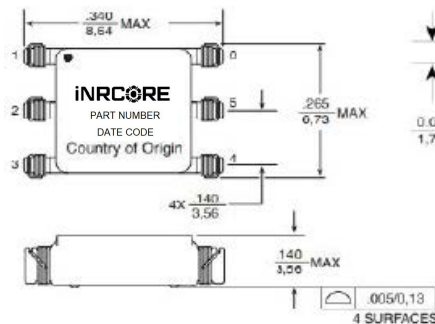
Electrical Schematic

PL2072



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

PL2073

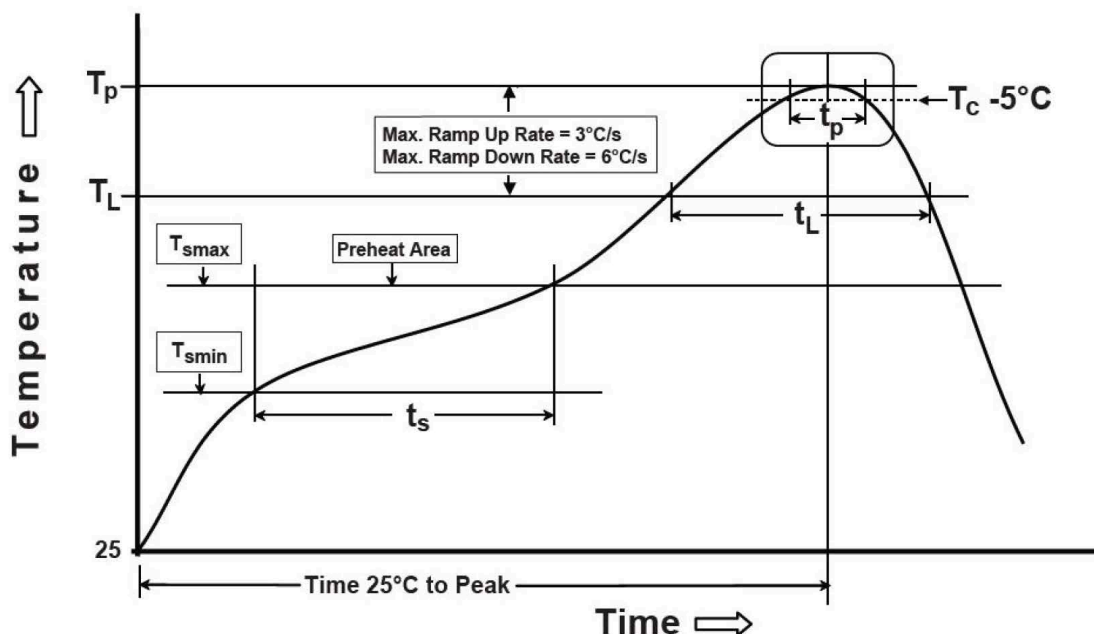


Weight 0.25 grams
Tape & Reel 800/reel
Tube 75/tube

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



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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