SMT GATE DRIVE TRANSFORMERS

Ruggedized

iNRCORE FAMILY OF BRANDS

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

Electrical Specifications @ 25°C

Part Number	Turns Ratio	ET³ (V*μsec) MAX	Primary Inductance (μH MIN)	Leakage Inductance (μH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Pri-Sec Insulation (Vdc)
PL2072	1:1	12	403	0.46	0.60	0.60	1500
PL2073	1:1:1	20	437	0.85	0.85	0.85	1500

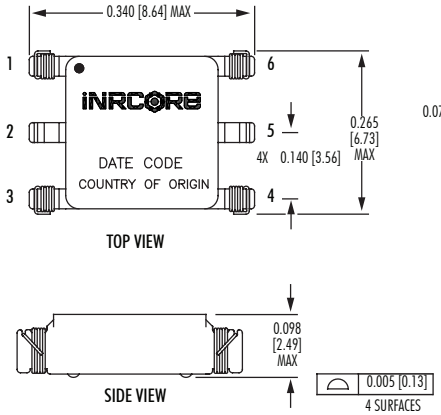
NOTES:

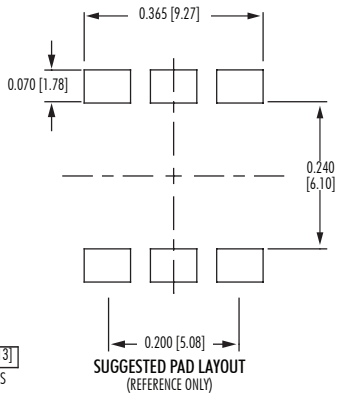
1. Add suffix "**NL**" for RoHS compliant version; i.e. PL1960 becomes **PL2072NL**.
2. For Tape & Reel packaging, add "**T**" suffix at the end of the part number: i.e. **PL2072T**.
3. The maximum volt-μsec rating limits the peak flux density to 2800 Gauss when used in a unipolar drive application. For bi-polar applications a maximum volt-μsec 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
4. Leakage inductance is measured at primary terminals with all secondaries shorted.
5. The temperature of the component (ambient + temperature rise) must be within the stated operating temperature range.
6. Continuous isolation voltage confirmed by 125°C/1000hrs accelerated aging with the bias votlage applied between primary and secondary windings.

PL2072

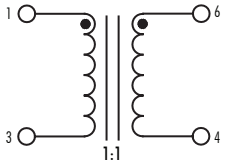
Mechanicals

Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]





Electrical Schematics

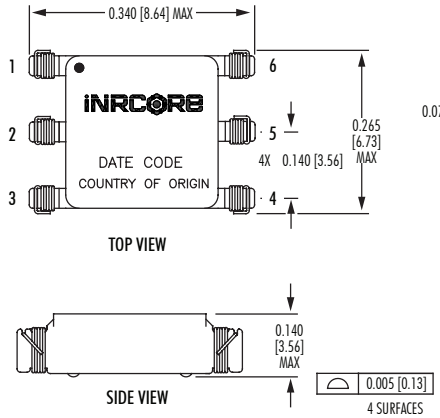


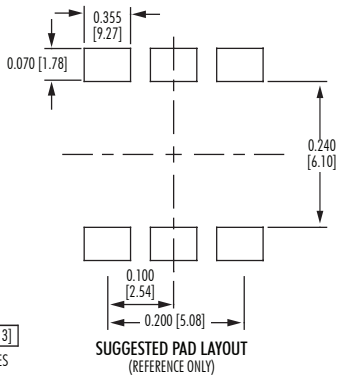
Weight: 0.28 grams
Tape and Reel: 1500/reel
Tray: 60/tube

PL2073

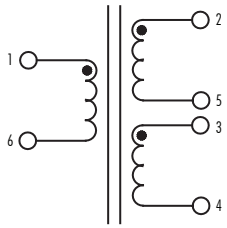
Mechanicals

Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]





Electrical Schematics



Weight: 0.23 grams
Tape and Reel: 800/reel
Tray: 75/tube

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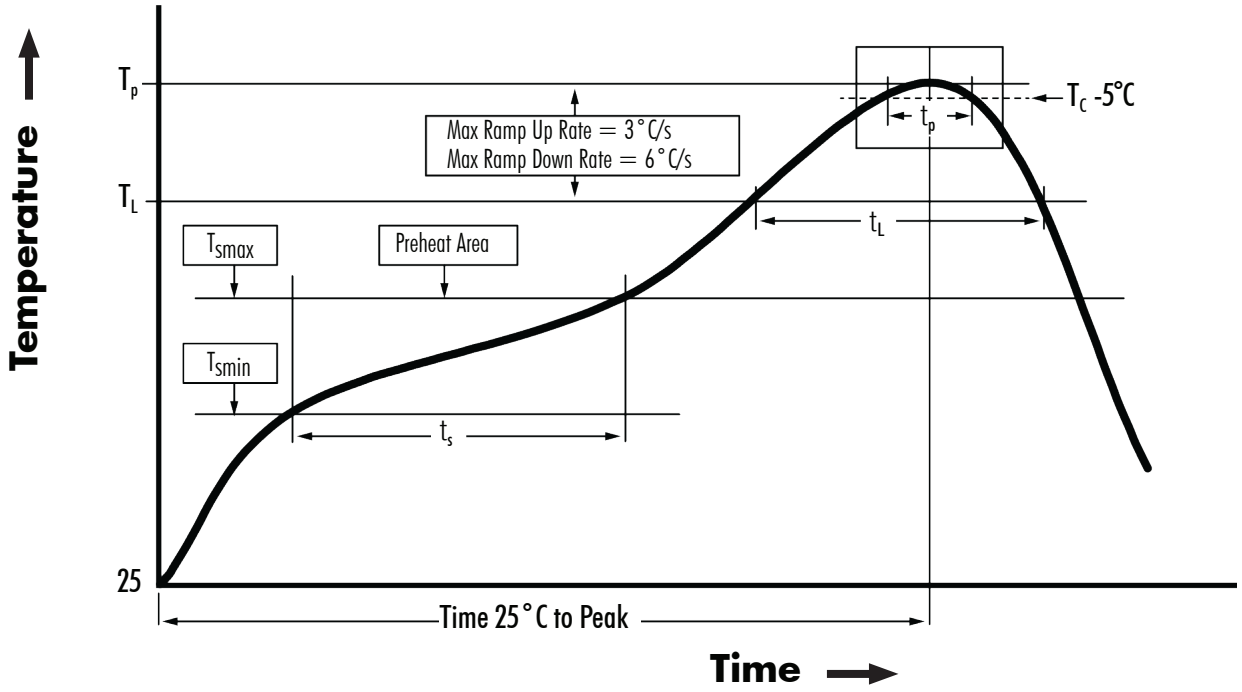
Recommended Reflow Profile (Based on J-STD-020D)



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)
Tin/Lead Profile									
100	150	183	220	60 - 120	60 - 150	20	3°C/s MAX	6°C/s MAX	360
Non-Lead Profile									
150	200	217	245	60 - 120	60 - 150	30	3°C/s MAX	6°C/s MAX	480

NOTES:

1. All temperatures measured on the package leads.
2. Maximum number of reflow cycles not to exceed 2.

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