

GATE DRIVE TRANSFORMER

Ruggedized



iNRCORE FAMILY OF BRANDS



- Operating & Storage Temperature: -40°C to +130°C
- Clearance and Creepage distance: 8mm
- Lead Finish: Sn100
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C							
Part Number	Turns Ratio 100KHz, 1.0Vrms (±3%)	Inductance 100KHz, 0.10Vrms (μH MIN)	Leakage Inductance 100KHz, 0.10Vrms (μH MAX)	ET ² (V*μsec) MAX	DCR (mΩ MAX)		DWV @5s, 50/60Hz (Vrms)
	(3-4):(5-6):(7-8)	(3-4)	(3-4) with (5,6,7,8) shorted	(3-4)	(3-4)	(5-6) = (7-8)	3 to (5,7)
PL2064NL	1:2.5:2.5	162	0.24	11.2	280	560	3750

NOTES:

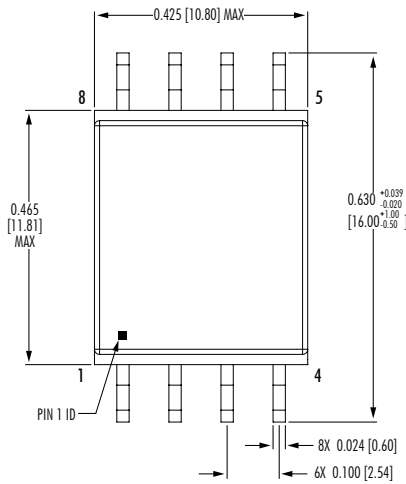
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. PL2064NLT.
- For design information only, the maximum volt-μsec rating is for unipolar drive applications. For bi-polar drive applications, a maximum volt-μsec of two times this rating is acceptable.

Mechanicals

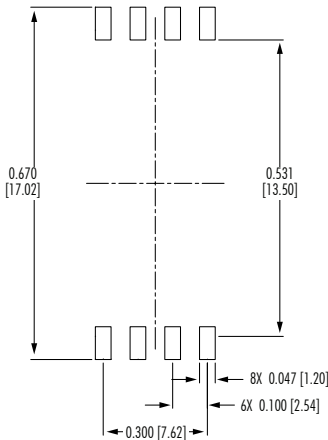
Electrical Schematics

PL2064NL

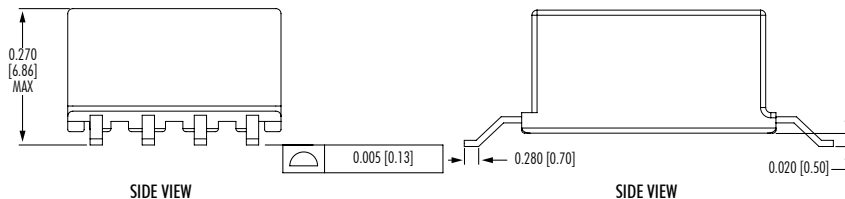
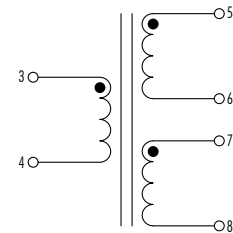
Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]



TOP VIEW



SUGGESTED PAD LAYOUT
(REFERENCE ONLY)



SIDE VIEW

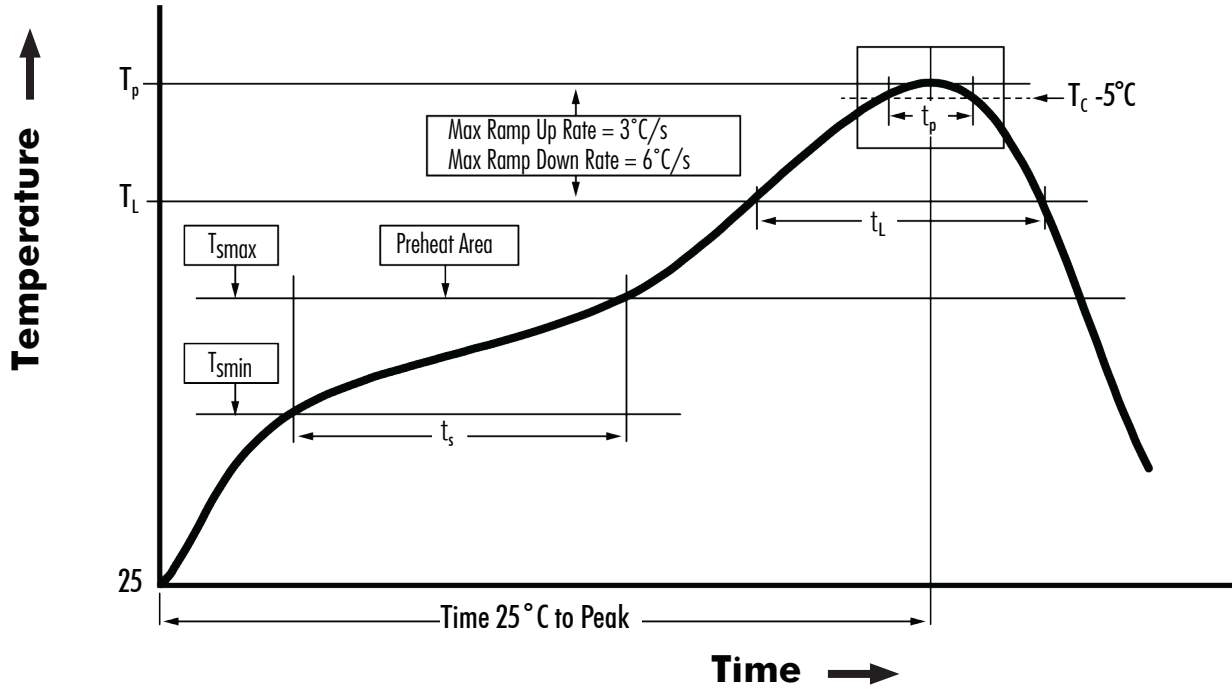
SIDE VIEW



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M412.A (1JUN23)

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)
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.

