GATE DRIVE TRANSFORMER
Ruggedized

- Basic Insulation(1.4mm creepage and clearance between primary and secondary)
- Operating Frequency: 50kHz and up
- Lead Finish:Pure tin
- Moisture Sensitivity Level: 1
- High Volt-uSec capability.

Electrical Specifications @ 25 °C – Operating Temperature – 55°C to +125 °C

Part [3] Number	Turns Ratio	Max (V*µsec)	Primary Inductance (µH MIN)	Leakage Inductance (µH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Hi-Pot @60s MIN (Vrms) Pri-Sec
PL2148NL	1:1	55	1486	0.80	1.15	1.15	1500Vrms

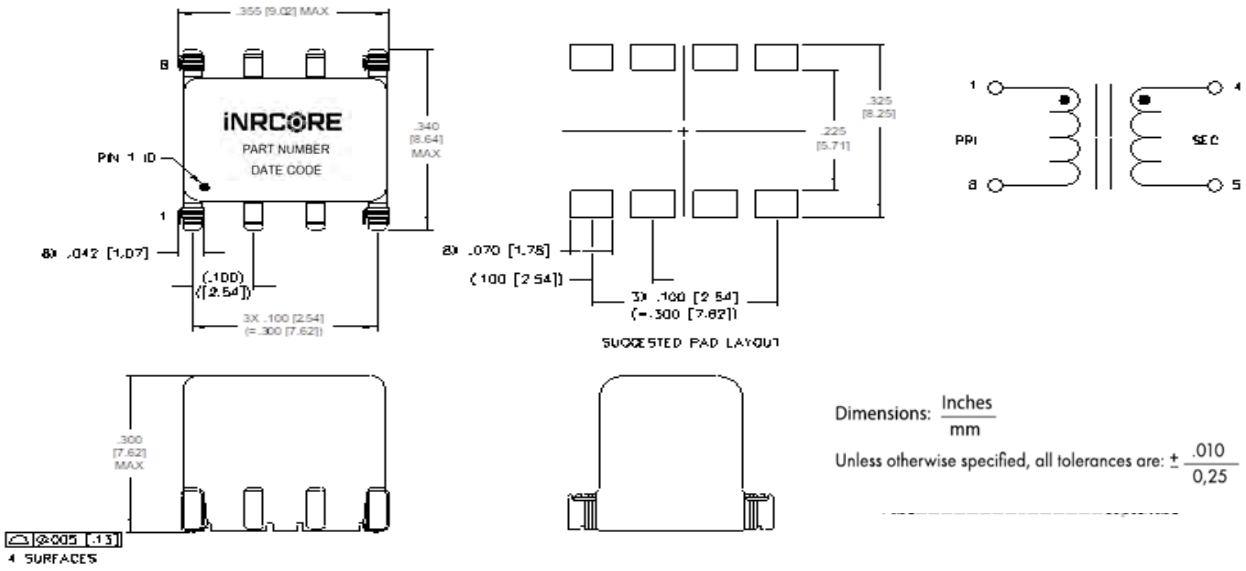
Notes:

1. The Maximum volt-µsec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application.
   (ie: (volt*µsec rat-ing) = (voltage applied to the primary) * duty cycle / Frequency.
2. Leakage inductance is measured at primary terminals with all sec-ondaries shorted.
3. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL2148NL becomes **PL2148NLT**).
4. The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant ver-sion is required, please contact Pulse for availability.
5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

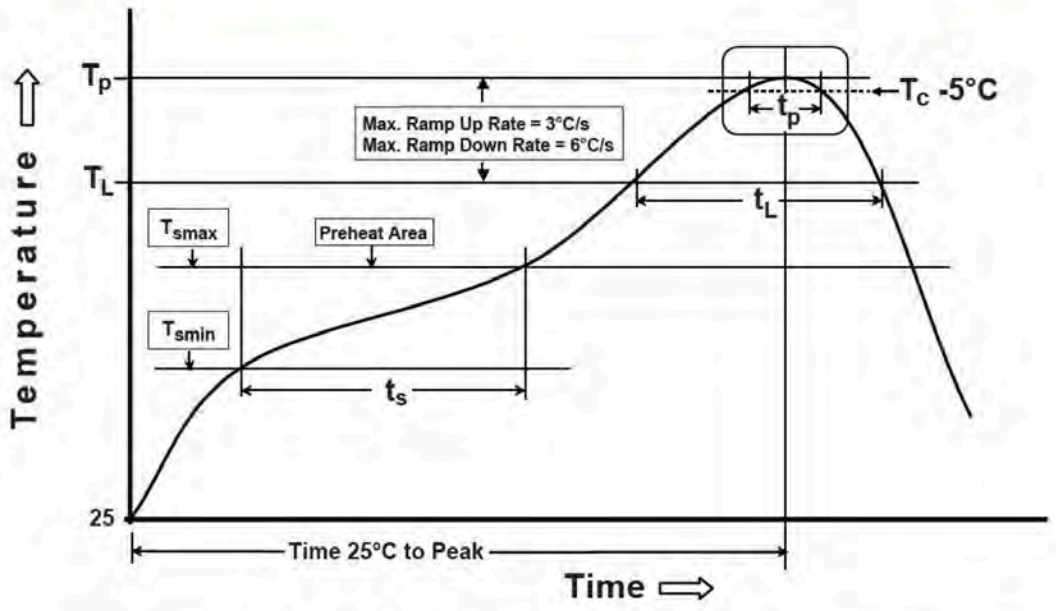
Mechanical

Electrical Schematic

PL2148NL



Non-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)
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 times of reflow cycle: 2.

For More Information

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