GATE DRIVE TRANSFORMER

Ruggedized



Schematic



- Operating and Storage Temperature: -55°C to +130°C
- Isolation Voltage: 1500 Vrms between Gate and Drive
- Operating Frequency: 50kHz to 600kHz
- Lead Finish: Sn100
- Moisture Sensitivity Level: 3

Part ^{3,} Number	Turns Ratio	Max ¹ (V*µsec)	Primary Inductance 50kHz 30m Vrms (µH MIN)	Leakage ² Inductance 100kHz 20m Vrms (µH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Hi-Pot @60s MIN (Vrms) Pri-Sec	
PL3172NL	1:1 ± 2%	27.2	1200	0.50	0.91	0.91	1500	

Notes:

1. The Maximum volt-usec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application. (ie: (volt*usec rat-ing) = (voltage applied to the primary) * duty cycle / Frequency. not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL

2. Leakage inductance is measured at primary terminals with all sec-ondaries shorted.

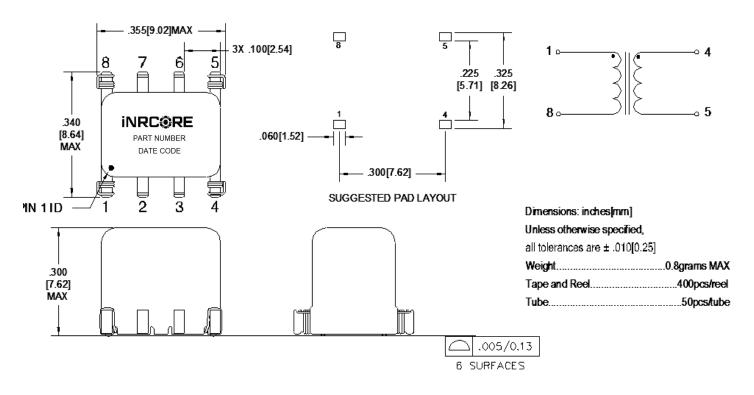
3. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL3172NL becomes PL3172NLT). PulseR complies to industry standard tape and reel specification EIA481.

Mechanical

4.The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact PulseR for availability.

5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

PL3172NL



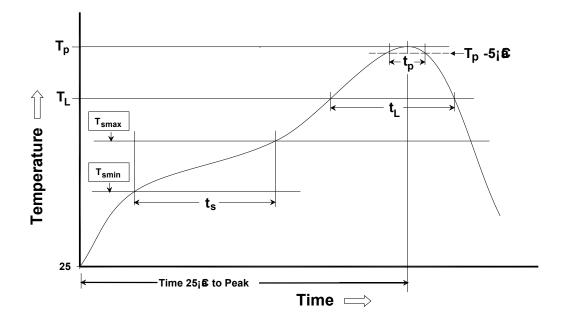


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No Lead Recommended Reflow Profile (Based on J-STD-020D)



T _{smin} (°C)	T _{smax} (°C)	T _L (°C)	T _p (°C MAX)	t _s (s)	† _L (s)	t _p (s MAX)	Ramp-up rate (T $_{\rm L}$ to T $_{\rm P})$	Ramp-down rate (T _P to $T_{\rm L})$	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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