SMT GATE DRIVE TRANSFORMER

Ruggedized



- Operating & Storage Temperature: -55°C to +130°C
- Lead Finish: Sn63/Pb37
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C

Part Number	Turns Ratio 50KHz, 0.30Vrms (±2%)	ET³ (V*µsec) MAX	Primary Inductance 50KHz, 0.30Vrms (mH MIN)	Leakage Inductance 100KHz, 0.020Vrms (µH MAX)	DCR (Ω MAX)			DWV @5S MIN (Vdc)
	(1-8):(3-6):(4-5)	(1-8)	(1-8)	(1-8) with (3,4,5,6) shorted	(1-8)	(3-6)	(4-5)	1 to (3,4)
X-1569	1:1:1	45.1	3.3	0.70	1.60	1.60	1.60	1500

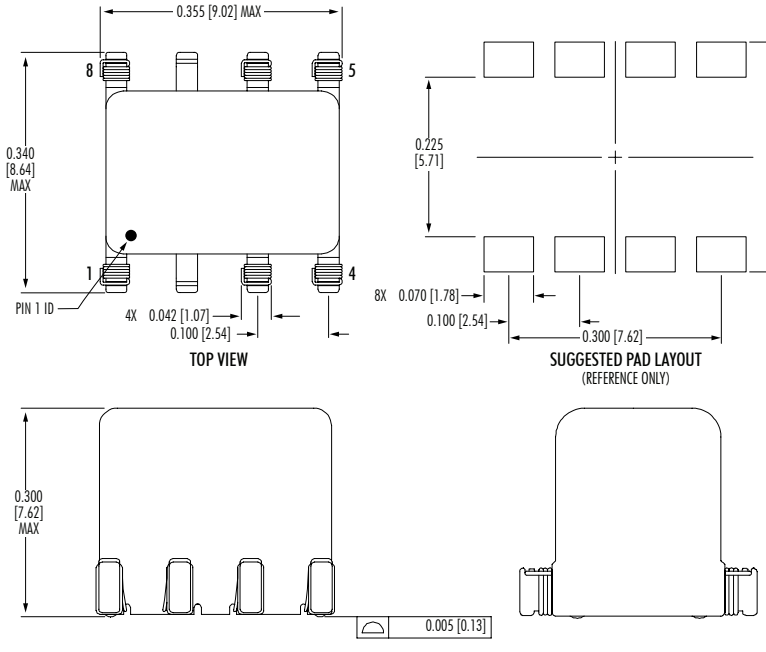
NOTES:

1. Add suffix "**NL**" for RoHS compliant version; i.e. X-1569 becomes **X-1569NL**.
2. For Tape & Reel packaging, add "**T**" suffix at the end of the part number: i.e. **X-1569T**.
3. For design information only, the maximum volt-µsec rating is for unipolar drive applications. For bi-polar applications, a maximum volt-µsec of two times this rating is acceptable.
4. Leakage inductance is measured at the primary terminals with all secondaries shorted.

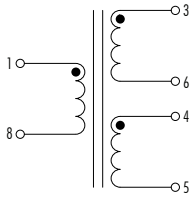
Mechanicals

X-1569

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

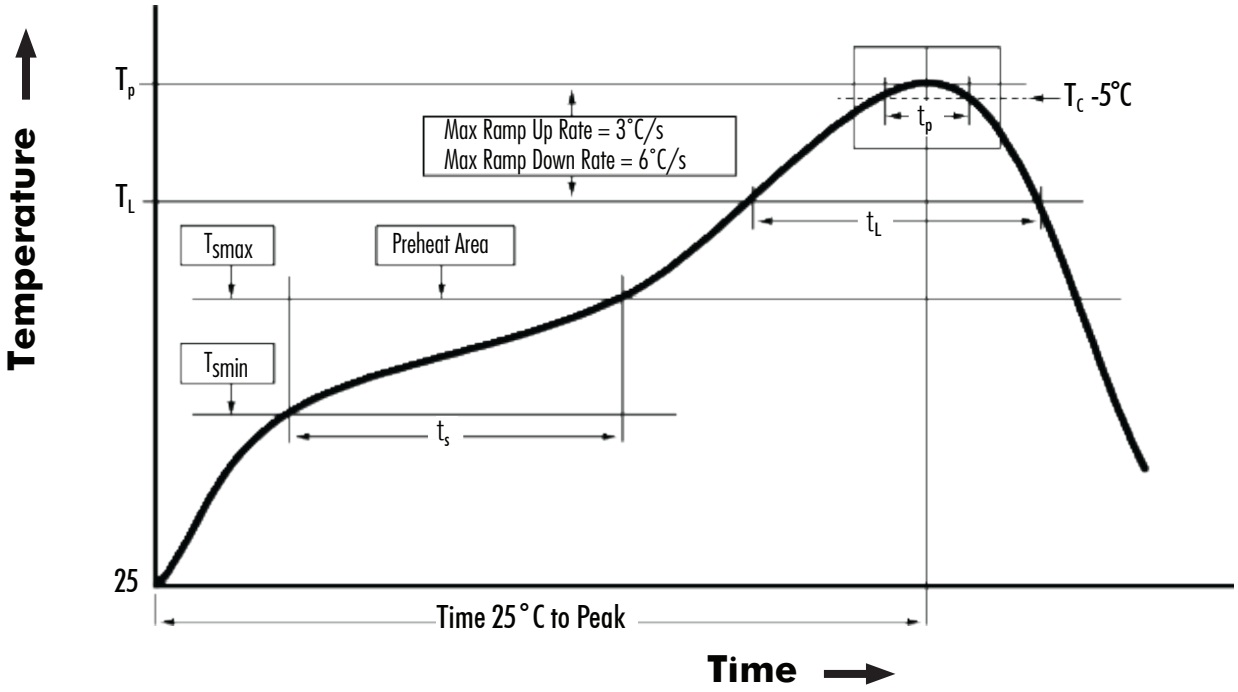


Electrical Schematics



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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.

iNRCORE, LLC
311 Sinclair Road, Bristol, PA 19007-6812 USA
Tel: +1.215.781.6400 Fax: +1.215.781.6430
www.iNRCORE.com

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