SMT GATE DRIVE TRANSFPORMERS

1500VDC Basic and Operational Insulation
Ruggedized

- 500Vdc isolation between gate and drive
- Basic insulation(1.4mm creepage/clearance) and operational available
- Moisture Sensitivity Level: 1

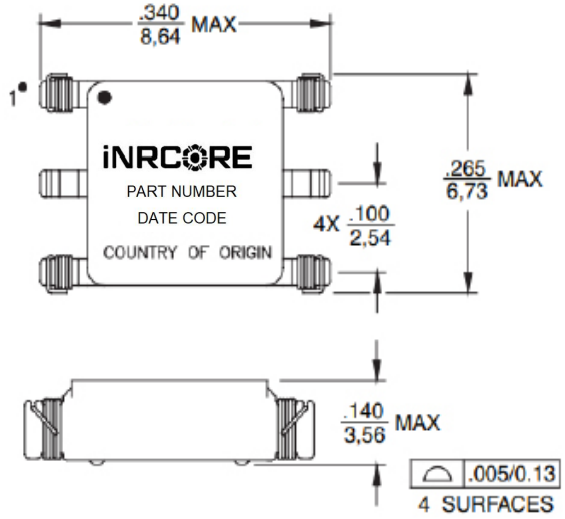
Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C

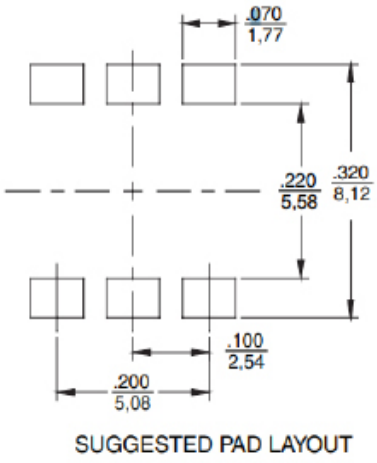
Part Number	Turns Ratio	Pri-Sec Insulation (Vdc)	MAX (v* usec)	Primary Inductance (uH MIN)	Leakage Inductance (uH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Package Size
PL1960	1:1	1500.00	9.700	785.0	0.46	0.60	0.6	8.6x6.7x2.5

NOTES:

1. The maximum volt-µsec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application. For bi-polar drive applications a maximum volt-µsec of two times this rating is acceptable (ie: 2* (volt*µsec rating) Volt*µsec = (voltage applied to the primary) * dutycycle / Frequecy = V * alpha / Freq_Hz = V * µsec
2. Leakage inductance is measured at primary terminals with all secondaries shorted.
3. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part num-ber (i.e. PL1960 becomes **PL1960T**).
4. The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equiva-lent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version
5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

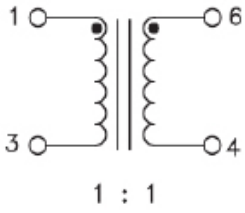
Mechanical





SUGGESTED PAD LAYOUT

Electrical Schematic

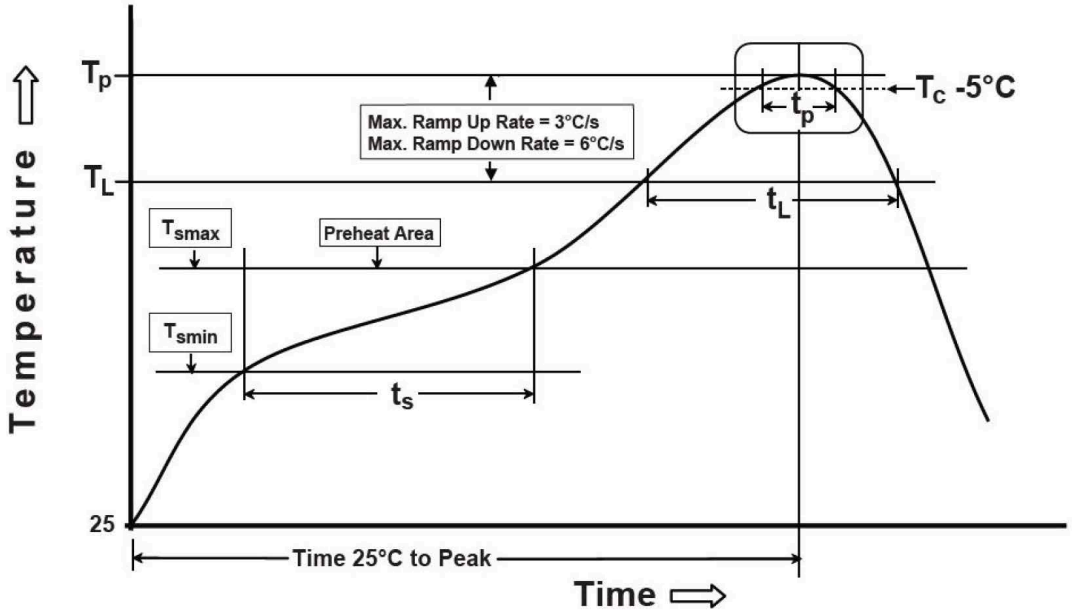


Weight . . . . . .0.28 grams
Tape & Reel 1500/reel
Tube 60/tube

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

Tin/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)
100	150	183	235	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

iNRCORE,LLC
311 Sinclair Road Bristol,
PA 19007-6812 U.S.A
Tel: + 1.215.781.6400
Fax: +1.215.7816430

Global Sales Representatives and Locations:
http://www.inrcore.com