SMT POWER INDUCTORS

Ruggedized.

PulseR Ruggedized Solutions

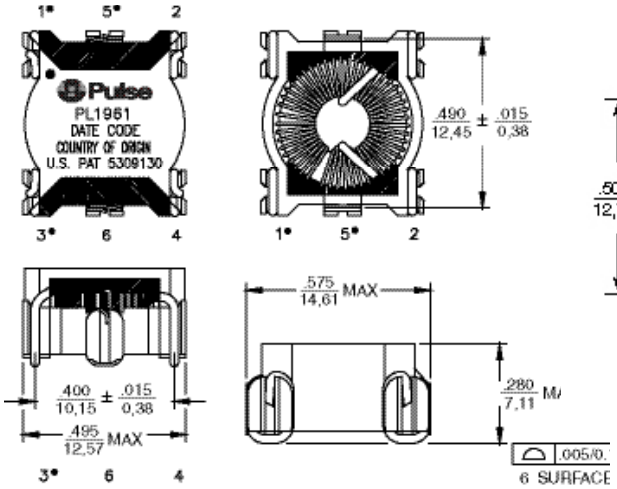
- Maximum Reflow Temperature: 235°C (245°C for RoHS compliant)
- Storage Temperature: -40°C to +130°C
- Moisture Sensitivity Level: 1
- Can be made available in a RoHS configuration by special request (Sn100 lead finish)

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C						
Part[5,6] Number	Turns Ratio	Current Rating (A)	Secondary Inductance (mH MIN)	DCR Primary (1,3-2,4) (mΩ MAX)	DCR Secondary (5-6) (mΩ MAX)	Hipot
PL1961	1:1:200	15.00	59.200	2.30	4200.0	500

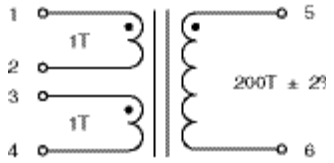
NOTES:

1. The temperature of the component (ambient temperature plus temper-ature rise) must be within the specified operating temperature range.
2. The maximum current rating is based upon temperature rise of the component and represents the dc current which will cause a typical temperature rise of 40°C with no air flow when both one turn windings connected in parallel.
3. To calculate the value of the terminating resistor (Rt) use the following formula: Rt (Ω) =V_{REF} * N / (Ipeak_primary)
4. The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for a uni-polar current use the following formula:
   B_{PK} = 14.29 * V_{REF} * (Duty_Cycle_Max) * 10^8 / (N * Freq_kHz)
   * for bi-polarcurrent applications divide B_{PK} as calculated above by2.
5. For RoHS compliant parts add suffix NL to the part number.
6. Add T suffix to the part number for tape and reel packaging.

Mechanical



Schematic

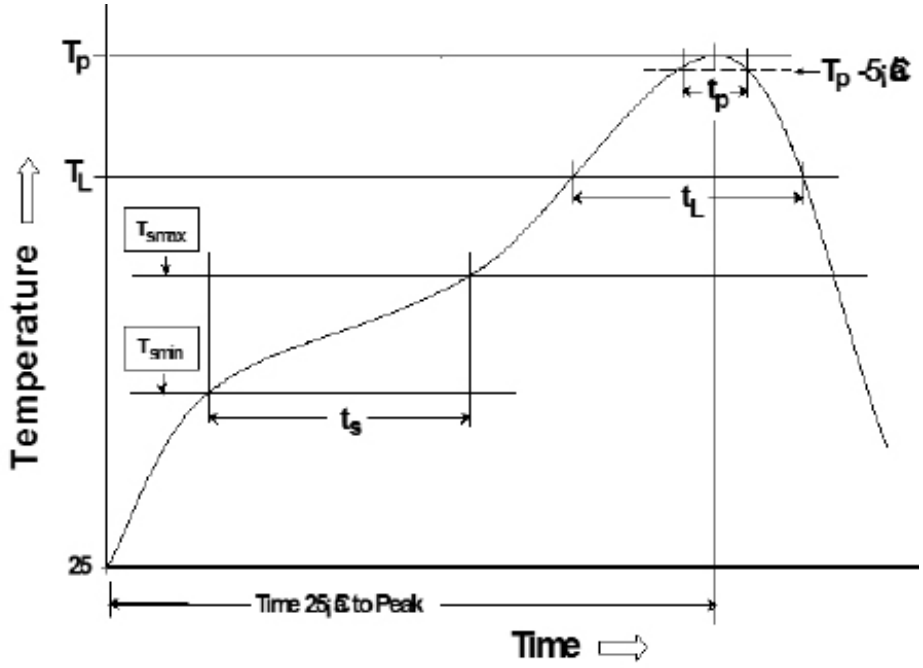


Weight.....2.10 grams
Tape & Reel.....300/reel
Tube.....40/tube

Dimensions: Inches / mm

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

Transceiver 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	225	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
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