

# SMT GATE DRIVE TRANSFORMER

Ruggedized



## PL1903



- R** 1500Vdc Isolation (380Vrms continuous)
- R** Basic Insulation (1.4mm creepage/clearance) and functional available
- R** Operating frequency: 50kHz and up
- R** Moisture Sensitivity Level: 3
- R** Lead Finish: Sn/Pb

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

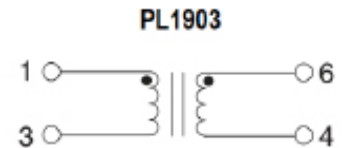
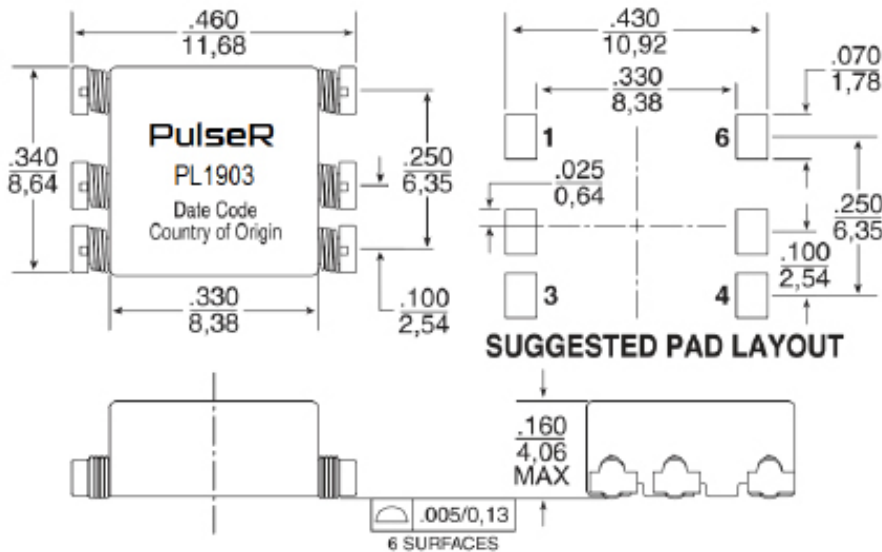
Part Number	Turns Ratio (Pri:Sec ±2%)	Pri-Sec Isolation	MAX <sup>1</sup> V*	Primary Inductance (uH Max)	Leakage <sup>2</sup> Inductance (uH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Package Size (L x W x H)
PL1903	1:1	1500 Vrms	17.2	980	0.75	0.88	0.62	11.8 x 8.8 x 4.0

- Notes:** 1. For Tape & Reel Packaging, add "T" suffix at the end of the part number; i.e. PL1903T  
 2. Add Suffix NL for RoHS compliant part; PL1903 becomes PL1903NL

### Mechanical

### Schematic

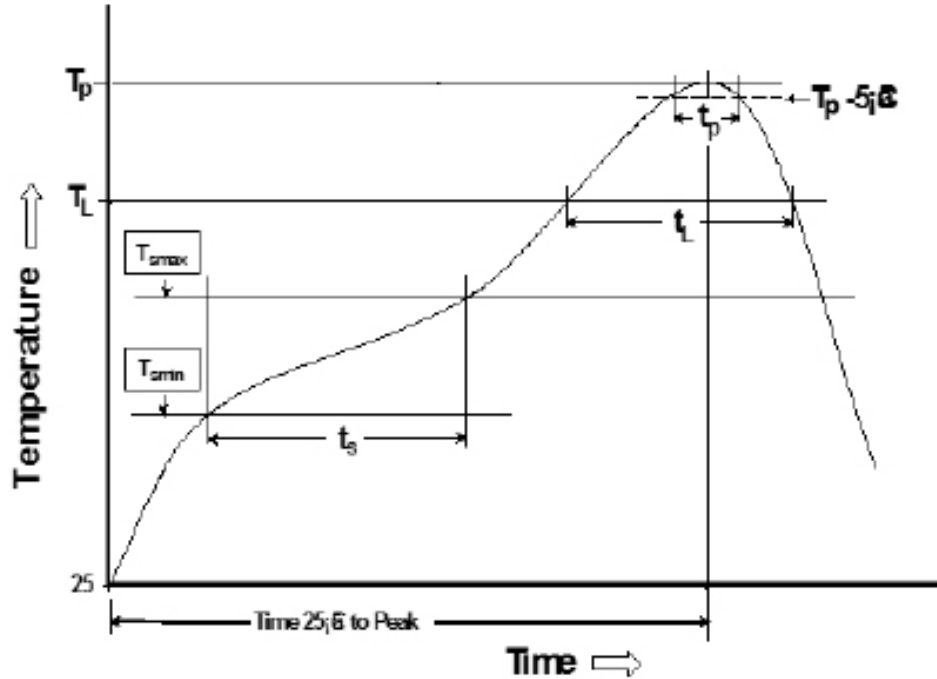
#### PL1903



Weight .....0.48 grams  
 Tape & Reel .....900/reel  
 Tube .....60/tube

Dimension:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

**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**

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