

SMT GATE DRIVE TRANSFORMER

Ruggedized

PL1903



- ⚙️ 1500Vdc Isolation (380Vrms continuous)
- ⚙️ Basic Insulation (1.4mm creepage/clearance) and functional available
- ⚙️ Operating frequency: 50kHz and up
- ⚙️ Moisture Sensitivity Level: 3
- ⚙️ 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 ¹ V*	Primary Inductance (µH Max)	Leakage ² Inductance (µH 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

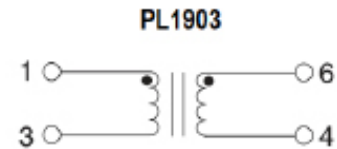
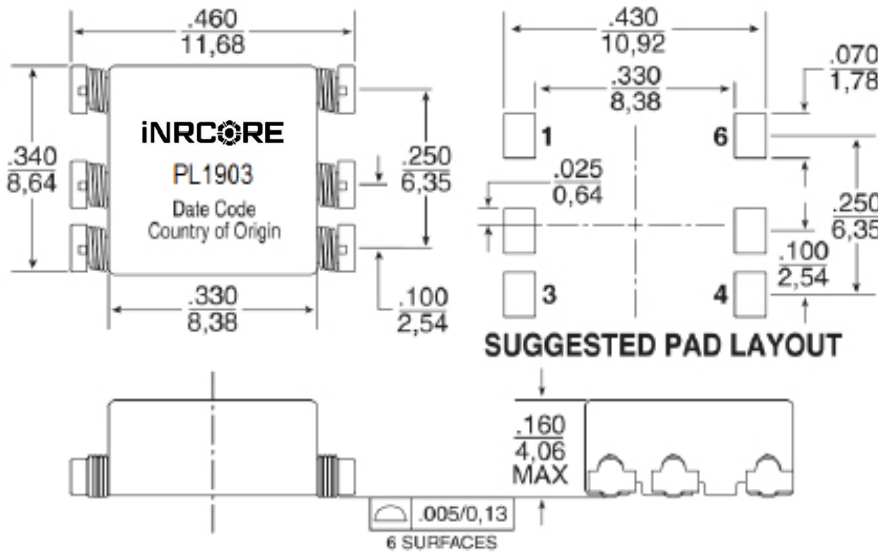
Notes:

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

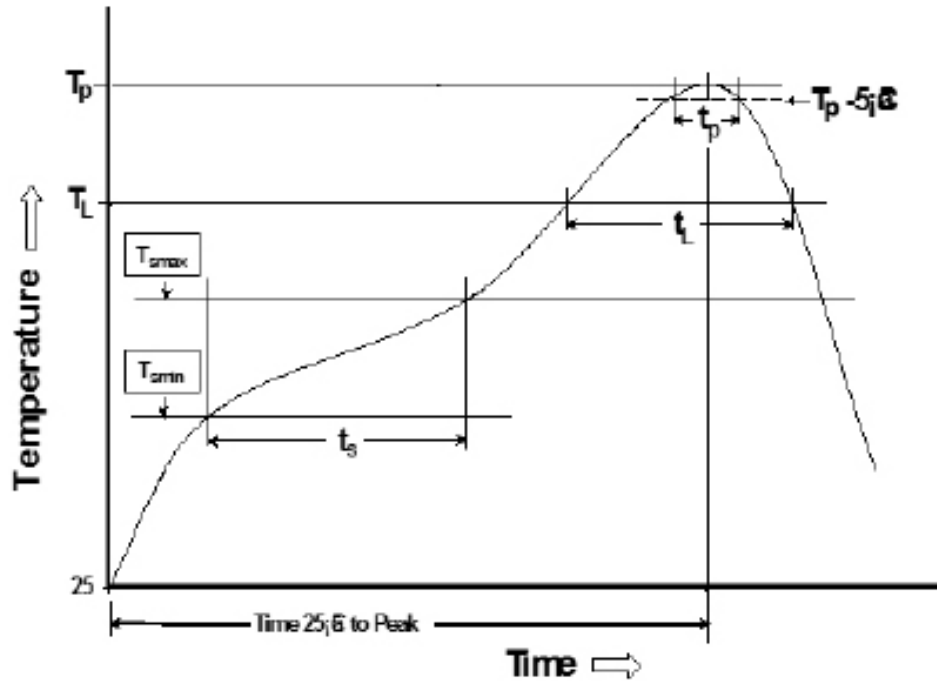


Weight0.48 grams
Tape & Reel900/reel
Tube60/tube

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)



TSMIN (°C)	TSMAX (°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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