

GATE DRIVE TRANSFORMER

Military/Aerospace Grade

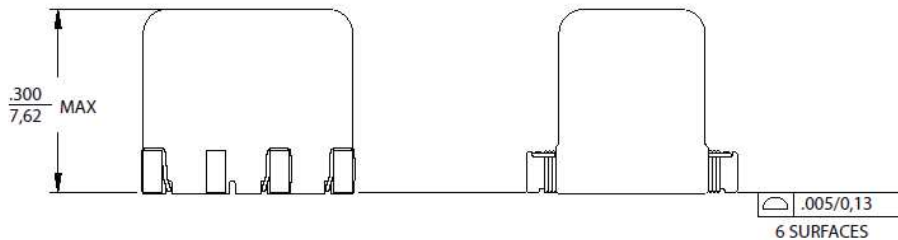
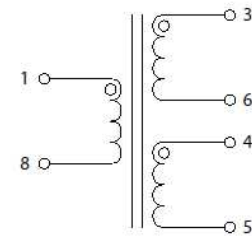
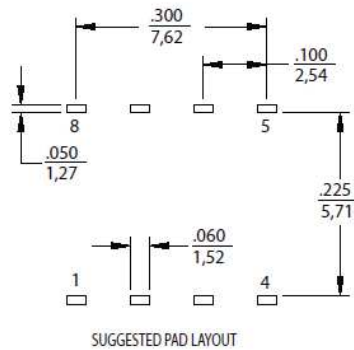
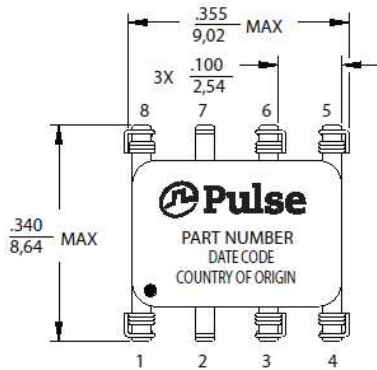


- Operating & Storage Temperature: -40°C to +130°C
- RoHS-5 Compliant
- Max Reflow Temperature: 245°C
- Lead Finish: Sn63/Pb37
- MSL: 3

Electrical Specifications @ 25°C						
Part Number	Turns Ratio	Pri-Sec Insulation	Primary Inductance (μH)	Leakage Inductance (μH Max)	DCR Primary (ΩH Max)	DCR Secondary (ΩH Max)
PL1863	2:1:1	1500Vrms	1200.0	0.6	0.91	0.46

Notes: Add suffix "T" to indicate Tape and Reel Packing (i.e. PL1863 becomes PL1863T)
 Add suffix "NL" for RoHS compliant part (i.e. PL1863NL)

PL1863 **Mechanical** **Schematic**

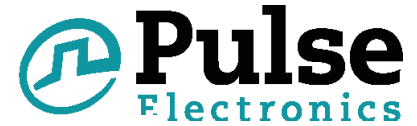


Weight 1.20 grams
 Tube 40/tube
 Tape & Reel 600/reel

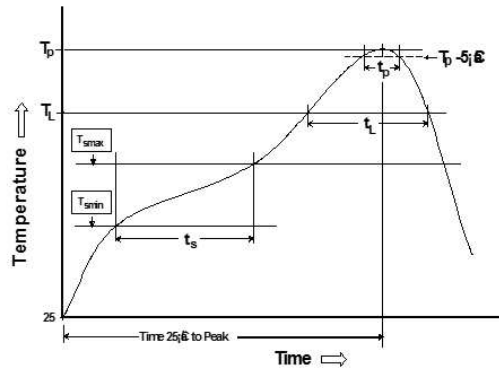
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)

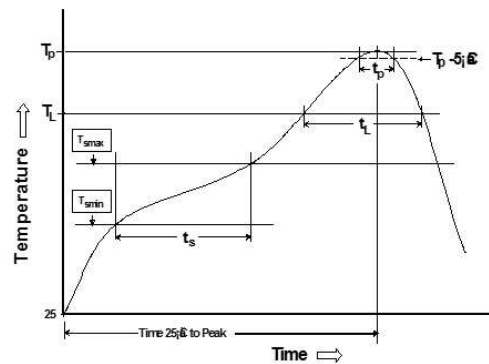


T_{SMIN} (°C)	T_{SMAX} (°C)	T_L (°C)	T_P (°C MAX)	t_s (s)	t_l (s)	t_p (s MAX)	Ramp-up rate (T_L to T_P)	Ramp-down rate (T_P to T_L)	Time 25°C to peak temperature (s MAX)
100	150	183	235	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

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

No 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)
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 times of reflow cycle: 2.

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