

SMT GATE DRIVE TRANSFORMERS

1500VDC Basic and Operational Insulation.

Ruggedized

PulseR
Ruggedized Solutions



- R Storage Temperature: -40°C to +130°C
- R 500Vdc isolation between gate and drive.
- R Basic insulation(1.4mm creepage/clearance) and operational available.
- R Maximum Reflow Temperature: 235°C (245°C for RoHS compliant)
- R Moisture Sensitivity Level: 3

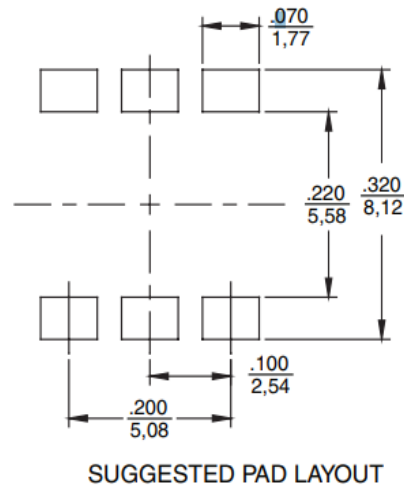
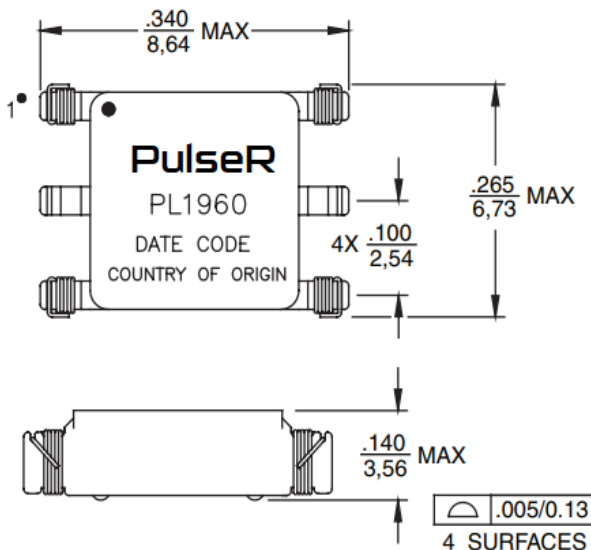
Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C⁵

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

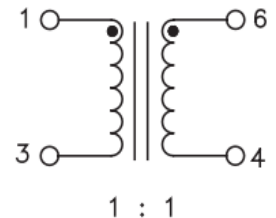
NOTES:

- 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 / Frequency = V * alpha / Freq_Hz = V * μsec
- Leakage inductance is measured at primary terminals with all secondaries shorted.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL1960 becomes PL1960T). Pulse complies to industry standard tape and reel specification EIA481.
- The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

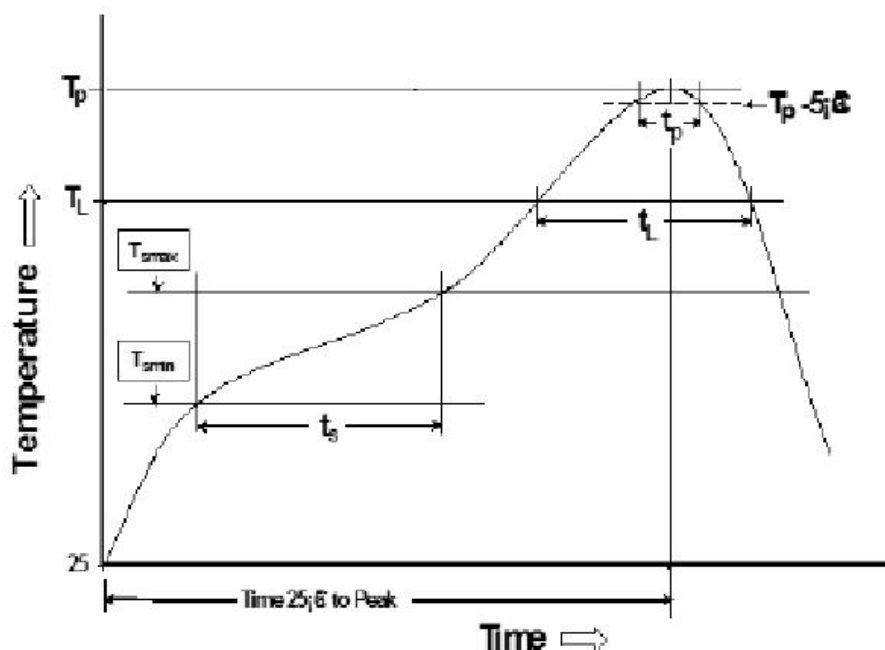


Schematic



Weight0.28 grams
Tape & Reel 1500/reel
Tube60/tube
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
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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