GATE DRIVE TRANSFORMER

Ruggedized





2700VDC isolation between Gate and Drive

Operating Frequency: 50KHz and up Footprint Size: 8.25*6.9*3.0mm Max

Three Windings (one drive and two gates)

Storage & Operating Temperature: -55°C to +130°C

Solder Dip Finish: Sb5
Moisture Sensitivity Level: 1

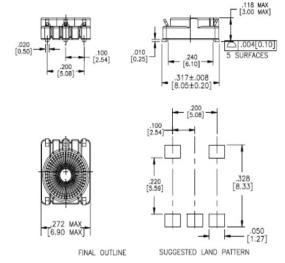
	Electrical Specifications @ 25°C								
Part Number	Turns Ratio	Pri-Sec Insulation (VDC)	Primary Inductance (µH +/- 35%)	Leakage Inductance (µH Max)	Max Volt-usec (1-2)	DCR (1-2) (Ω Max)	DCR (3-4) (Ω Max)	DCR (4-5) (Ω Max)	
PL3159NL	1:1:1	2700	780	0.4	21.0	0.85	0.85	0.85	

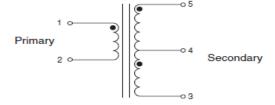
Notes: Add suffix "T" to indicate Tape and Reel Packing (i.e. PL3159NL becomes PL3159NLT)

- 1. The maximum volt-µsec rating limits the peak flux density to 2500 Gauss when used in a unipolar drive application. For bi-polar drive applications, a maximum volt-sec of 1.5 times this rating is acceptable (ie: volt* µsec rating=(voltage applied to the primary)*dutycycle/Frequency=V*alpha/Freq_Hz=V* µsec).
- 2. All inductance tests measured at 100kHz, 100mV. Leakage inductance measured from (1-2) with 3,4,5 shorted.
- 3. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

PL3159NL Mechanical Schematic





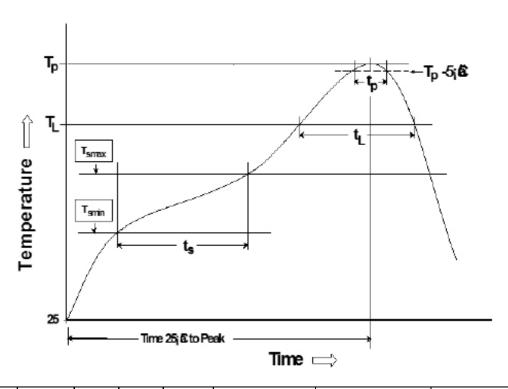


Weight	1.2grams
Tube	75/tube
Tape&Reel	1000/reel

Dimensions: Inches/mm Unless otherwise specified, all tolerances are ±.005/0.13



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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