SMT GATE DRIVE TRANSFORMER

Ruggedized



PL3159NL



- Three Windings (one drive and two gates)
- Operating Frequency: 50kHz and up
- Lead Finish: Pure Tin
- Moisture Sensitivity Level: 1

Electrical Specifications @ 25 °C – Operating Temperature – 55 °C to +125 °C												
Part ³ Number	Turns Ratio	Max (V*µsec)	Primary Inductance (µH MIN)	Leakage Inductance (µH MAX)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Pri-Sec Insulation					
PL3159NL	1:1:1	21	507	0.4	0.85	0.85	2700Vdc					

Notes:

1. The Maximum volt-usec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application.

(ie: (volt* μ sec rat-ing) = (voltage applied to the primary) * duty cycle / Frequency.

2. Leakage inductance is measured at primary terminals with all sec-ondaries shorted.

3. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL3159NL becomes PL3159NLT).

4. 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 is required, please contact iNRCORE for availability.

5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.





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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	<mark>60-150</mark>	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.

For More Information

iNRCORE,LLC 311 Sinclair Road Bristol, PA 19007-6812 U.S.A Tel: + 1.215.781.6400 Fax: +1.215.7816430 Global Sales Representatives and Locations: http://www.inrcore.com

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