GATE DRIVE TRANSFORMER

Ruggedized







- 4000Vrms gate to drive isolation
- 1500Vrms Continuous Isolation between windings
- Operating Temperature: -55° C to $+130^{\circ}$ C
- Lead Finish: Sn100
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C												
	Turns 100KHz (±2	Ratio z, 1Vrms 2%)	ET² (V*µsec) MAX	Primary Inductance 100KHz, 100mVrms (mH MIN)	Leakage Inductance Parasitic Capacitance 100KHz, 100mVrms 100KHz, 100mVrms DCR (μH MAX) (pF MAX) (Ω MAX)			DWV @5S MIN (Vrms)				
Part Number	(1-4):(8-7)	(1-4):(6-5)	(1-4)	(1-4)	(1-4) with (5,6,7,8) shorted	(1-4) to (5,6,7,8)	(1-4)	(8-7)	(6-5)	(1,2,4) to (5,6,7,8)	(5,6) to (7,8)	
PL3602NL	2.0	2.0	375	6.40	8.0	60	2.2	1.6	1.6	4000	1500	

NOTES:

1. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. PL3602NLT.

2. For design information only, the maximum volt-µsec to limit the core loss and temperature at 100 kHz base on a bipolar flux swing of 2100Ga peak.





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



T _{smin} (°C)	T _{smax} (°C)	т _. (°С)	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)			
Non-Lead Profile												
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 number of reflow cycles not to exceed 2.



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