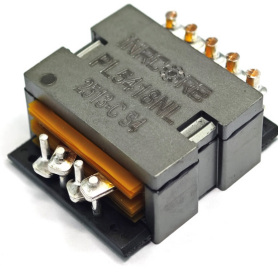


HIGH FREQUENCY PLANAR INDUCTORS

Ruggedized



- ⊗ Power Rating: up to 500W
- ⊗ Input ET: 40 (V * μ sec MAX)
- ⊗ I rated: 51A
- ⊗ Frequency Range: 200kHz to 400kHz
- ⊗ Operating Temperature: -40°C to +125°C
- ⊗ Lead Finish: Sn100
- ⊗ Moisture Sensitivity Level: 1

Electrical Specifications @ 25°C

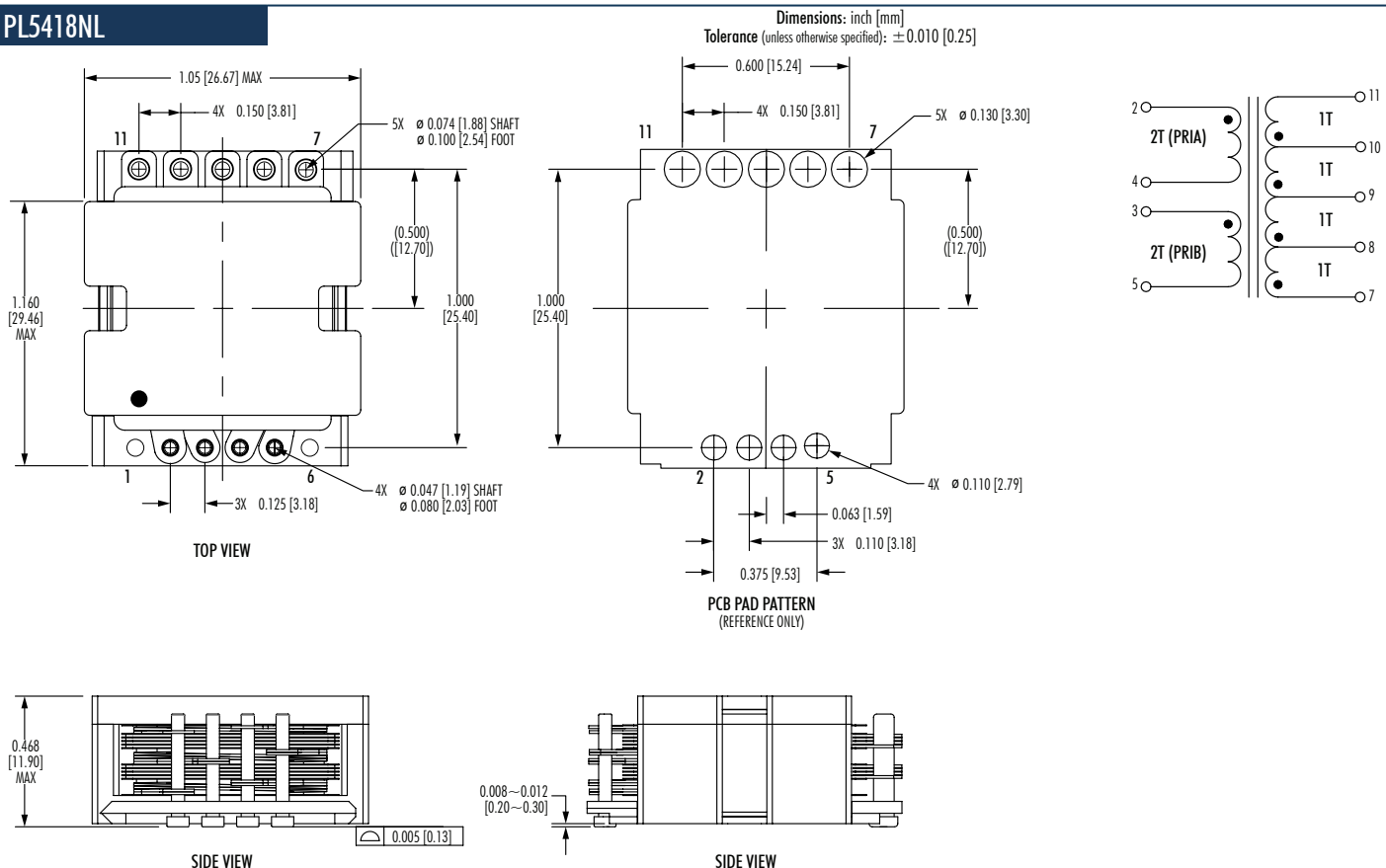
Part Number	Turns Ratio ($\pm 5\%$)		Inductance 100KHz, 0.10 Vrms (μ H MIN)	Leakage Inductance 100KHz, 0.10 Vrms (μ H MIN)	DCR MAX (m Ω)			Dielectric Withstanding Voltage 5S MIN (VDC)
	(2-4) (7-11)	(2-4) (3-5)	(2-4)	(2-4) with other pins shorted	(2-4)	(3-5)	(7-11)	2, 3 to 7
PL5418NL	0.50	1	11.2	0.30	2	2	2.3	1750

NOTES:

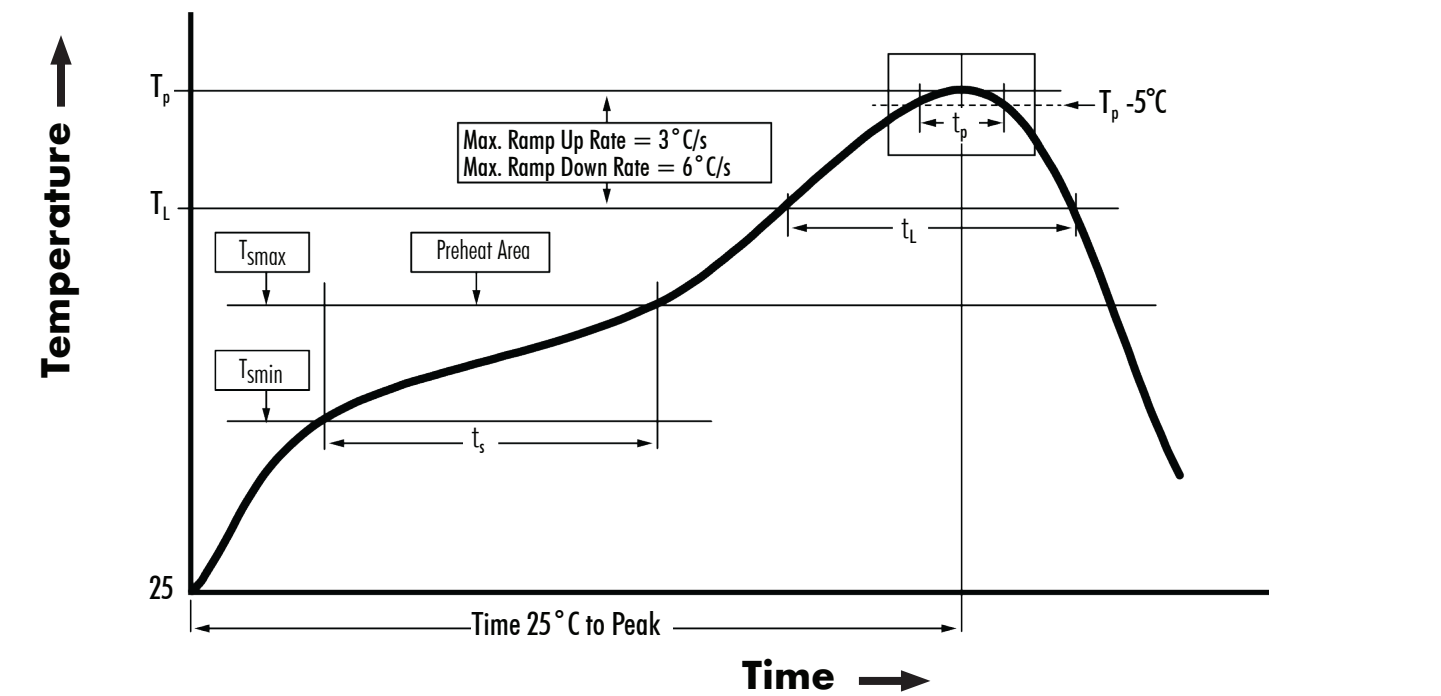
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. **PL5418NLT**
- The current rating (I rated) is based on the temperature rise of the component and represents the rms current, which will cause a typical temperature rise of 55°C with 50LFM forced cooling or equivalent.

Mechanicals

PL5418NL



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)
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.