

# SMT COMMON MODE INDUCTORS

## Toroid - POGO Series

Ruggedized



iNRCORE FAMILY OF BRANDS



- ⊗ Ruggedized header with POGO pins for secure board mounting
- ⊗ Rated Voltage: 250 V<sub>AC</sub>
- ⊗ Low RFI toroid
- ⊗ Operating Temperature: -55°C to +130°C
- ⊗ Lead Finish: Sn63/Pb37
- ⊗ Moisture Sensitivity Level: 1

### Electrical Specifications @ 25°C

Part Number	Inductance @ I <sub>rated</sub> (mH ±30%)	I <sub>rated</sub> (A)	DCR MAX (mΩ)	SRF (MHz)	Size Code	Impedance Curve (see below)
PL8800	1	3.6	50	4	POGO 50	1
PL8801	1.5	1.5	60	2	POGO 40	2
PL8802	3	2.5	80	2.2	POGO 50	3
PL8803	10	1.0	450	0.5	POGO 40	4

### NOTES:

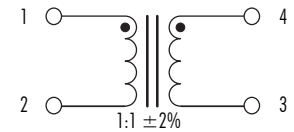
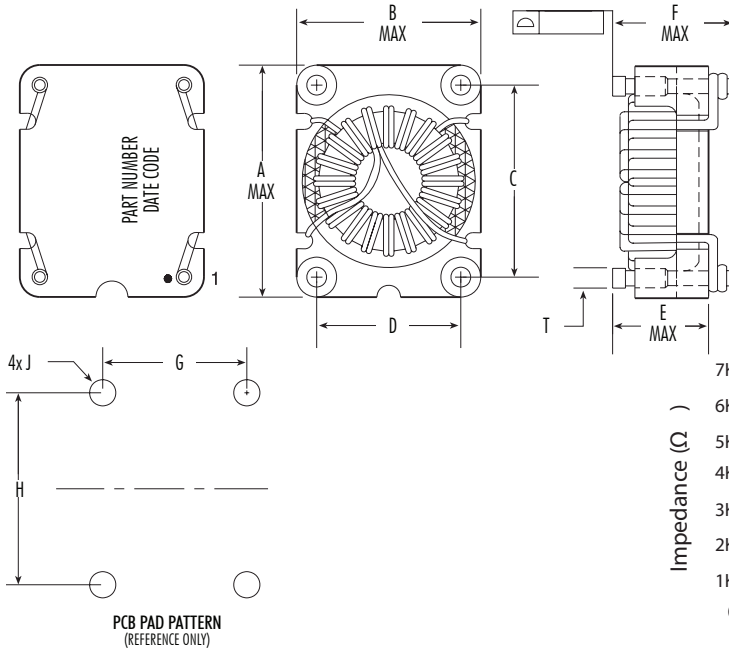
1. Add suffix "NL" for RoHS compliant version; i.e. PL8800 becomes **PL8800NL**. NL parts have 100% SN Lead Finish (MSL:4)
2. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. **PL8800T**.

### Mechanicals

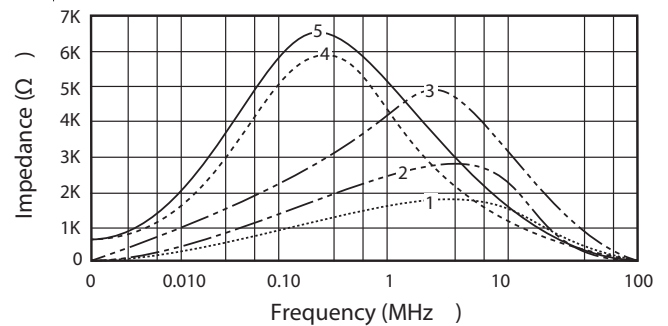
### Electrical Schematics

PL88xx

Dimensions: inch [mm]  
Tolerance (unless otherwise specified): ±0.010 [0.25]



### Impedance Curves



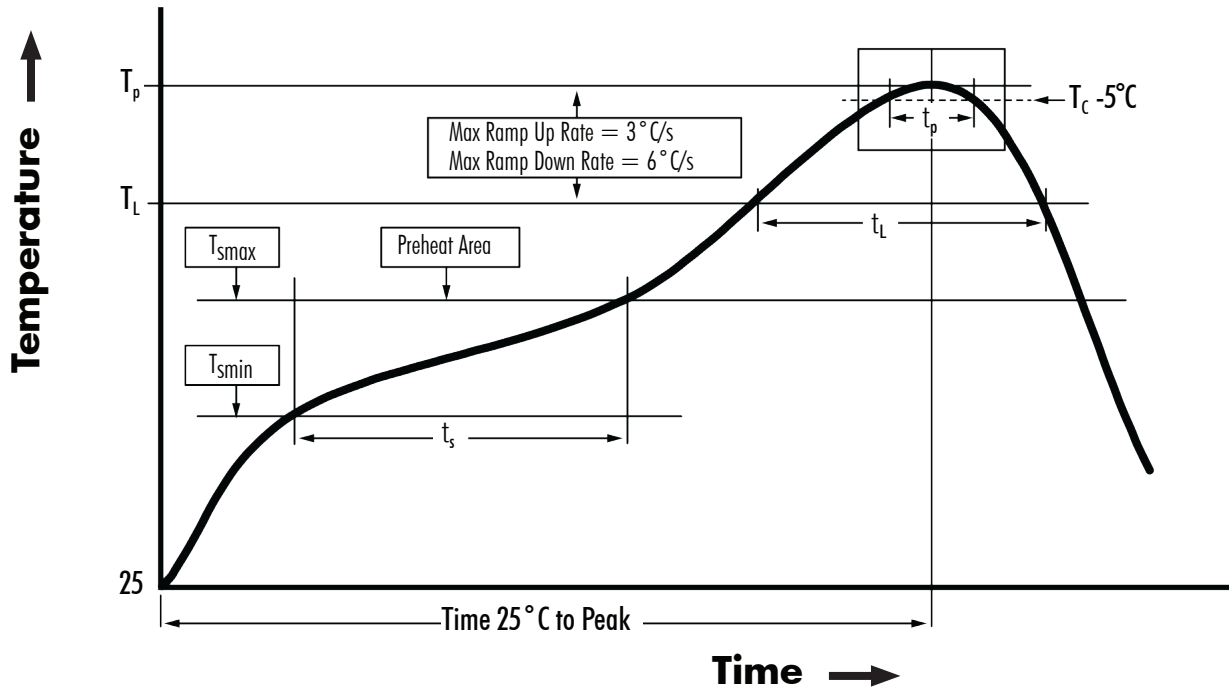
Package	A MAX	B MAX	C	D	E MAX	F MAX	G	H	J	T	Weight MAX (g)	Tube
POGO 40	0.725 [18.42]	0.575 [14.61]	0.600 [15.24]	0.450 [11.43]	0.310 [7.87]	0.380 [9.65]	0.450 [11.43]	0.600 [15.24]	0.082 [2.08]	0.062 [1.57]	2.5	30
POGO 50	0.910 [23.11]	0.700 [17.78]	0.730 [18.54]	0.520 [13.21]	0.400 [10.16]	0.510 [12.95]	0.520 [13.21]	0.730 [18.54]	0.145 [3.68]	0.145 [3.18]	7.1	30



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M116.E (01/23)

### 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 number of reflow cycles not to exceed 2.

