

SMT COMMON MODE INDUCTOR

Ruggedized



- ⊗ Dielectric Strength: Up to 15 A
- ⊗ Pick-and-place Compatible
- ⊗ Designed for dc/dc Converters
- ⊗ Moisture Sensitivity Level : 1

Electrical Specifications @ 25 °C – Operating Temperature – 40 °C to +120 °C

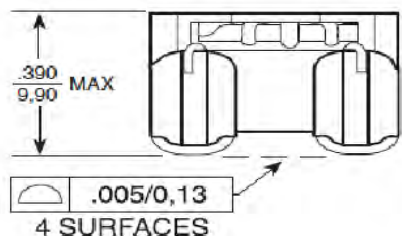
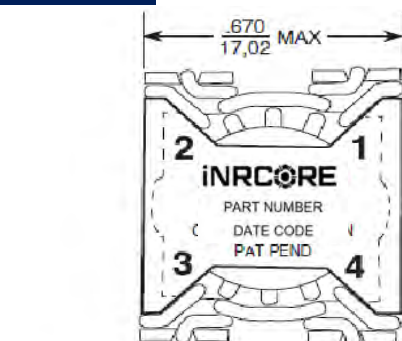
Part Number	Inductance (mH± 35%)	Rated (A)	Turn Ratio (± 2%)	DCR (μΩ MAX)	Dielectric Withstanding Voltage @6s MIN (Vrms)	Quantity in Tube
PL1241	0.768	4.7	1.0	40	6.2	30
PL1241-1	0.768	4.7	1.0	40	6.2	30

- Notes:
1. Leakage inductance tested to 100 kHz, 1140 mV, (1-2) with (3-4) shorted.
 2. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL1241 becomes **PL1241T**).

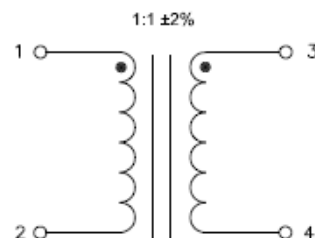
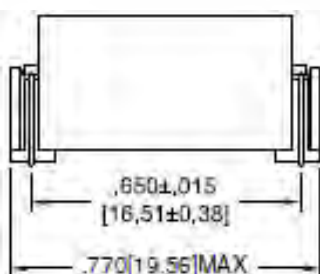
Mechanical

Electrical Schematic

PL1241-1



Part hardened for aerospace use.



Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± .010
0,25



SMT COMMON MODE INDUCTOR

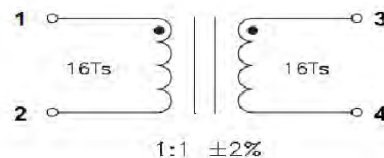
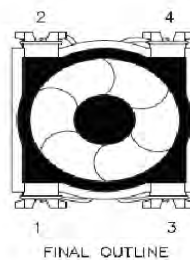
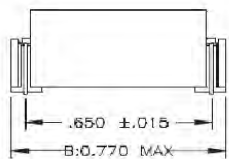
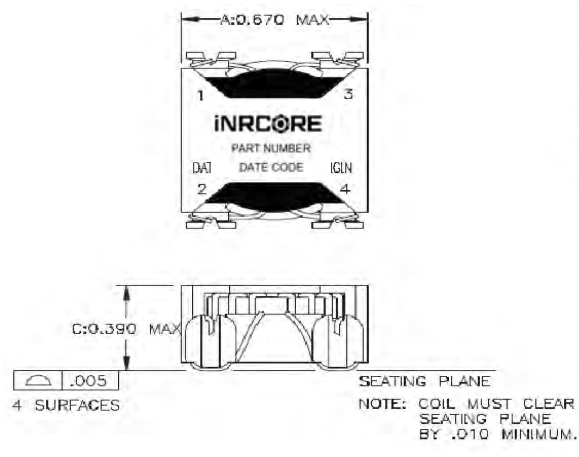
Ruggedized



Mechanical

Electrical Schematic

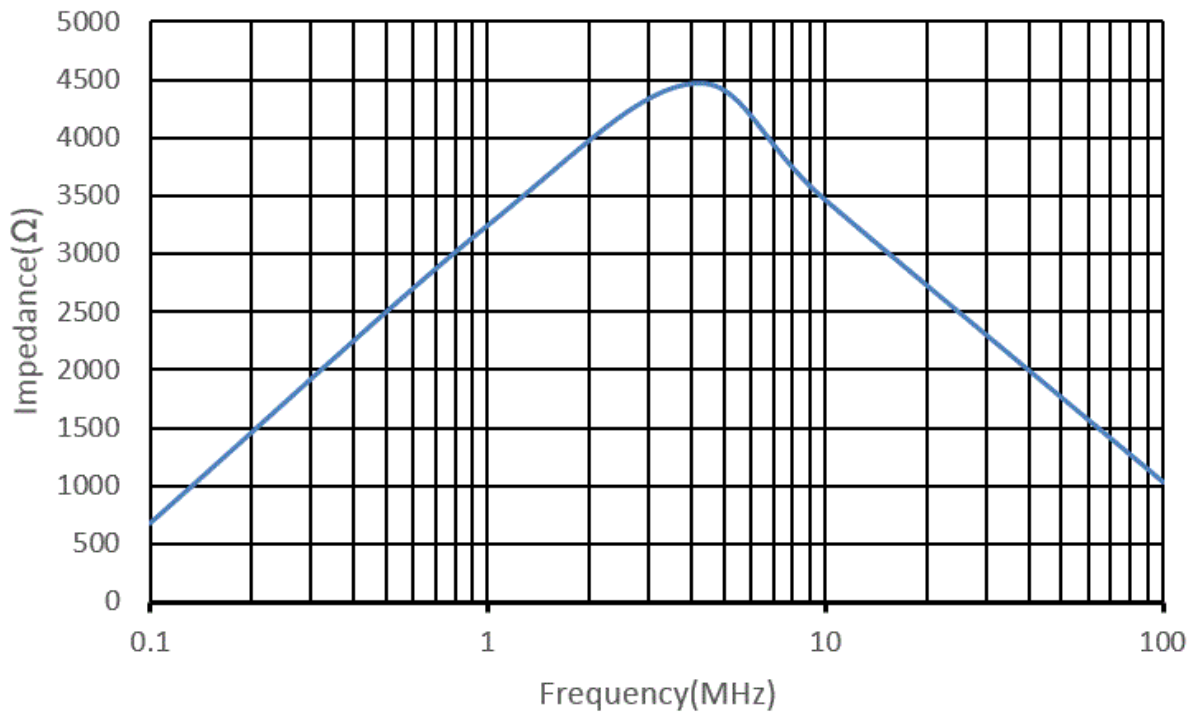
PL1241



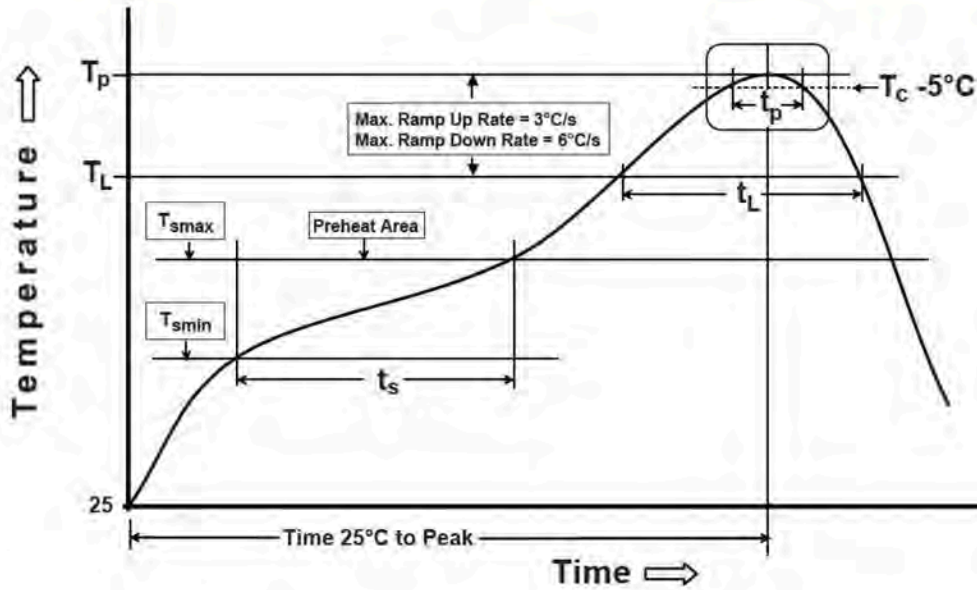
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

Impedance Curve

PL1241NL/ PL1241-1NL



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	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 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.incore.com>

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2020. iNRCORE, LLC. All rights reserved.

