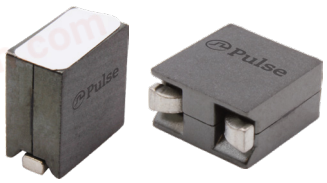
chanhvinh.com

SMT Power Inductors

Power Beads - PGL6395.XXXHLT Series

Pulse a YAGEO company



- ***Current Rating:*** *Over 140A*
- ***Inductance Range:*** *70nH to 220nH*
- ***Height:*** *10.0mm Max*
- ***Footprint:*** *10.2mm x 4.6mm Max*

Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

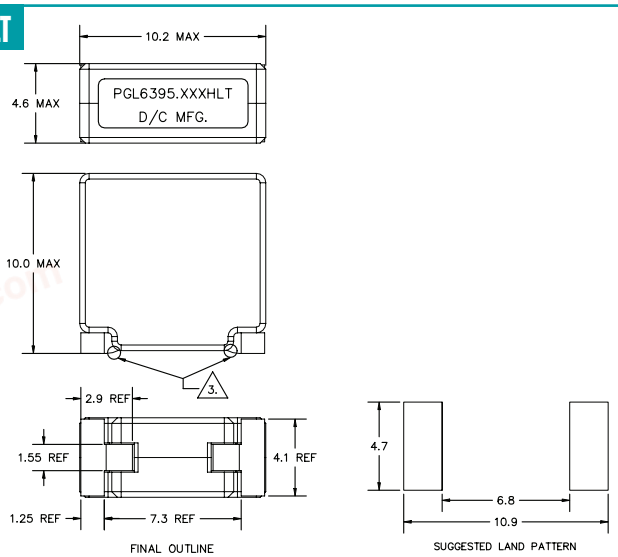
Part Number	Inductance @ 0 Adc (nH +/- 15%)	Inductance @ I sat (nH MIN)	Irated (ADC)	DCR mohms (+/- 10%)	Saturation Current[5] (A TYP)			Irms
					25°C	100°C	125°C	
PGL6395.700HLT	70	50	70	0.23	141	120	113	70
PGL6395.101HLT	100	72	70		98	83	77	
PGL6395.121HLT	120	82	70		82	70	65	
PGL6395.221HLT	220	141	42		42	36	33	

NOTES:

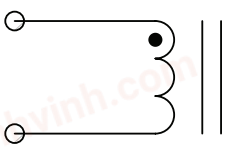
1. Inductance measured at 100kHz, 100mVrms.
2. Inductance at Irated is the value of the inductance at 25°C at the listed rated current.
3. The rated current as listed is either the saturation current (25°C or 100°C) or the heating current depending on which value is lower.
4. The nominal DCR is measured at point 2., as shown below on the mechanical drawing.
5. The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C, 100°C). This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
6. The heating current is the DC current which causes the part temperature to increase by approximately 40°C when used in a typical application.
7. In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may neccessitate derating the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the core loss and temperature rise curves can be used.
8. Parts with the HLT suffix are sold in tape and reel packaging. Pulse complies to industry standard tape and reel specification EIA-481.
   The tape and reel for this product has a width (W=24mm), pitch (Po=12mm) and depth (Ko=10.3mm). Samples of these parts can be ordered by removing the HLT suffix and replacing with HL.
9. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
10. Sample Value only. Guaranteed by Design and not tested in production

Mechanical

PGL6395.XXXHLT



Schematic



Weight: 1.99grms

Tape &Reel: 400/ Reel

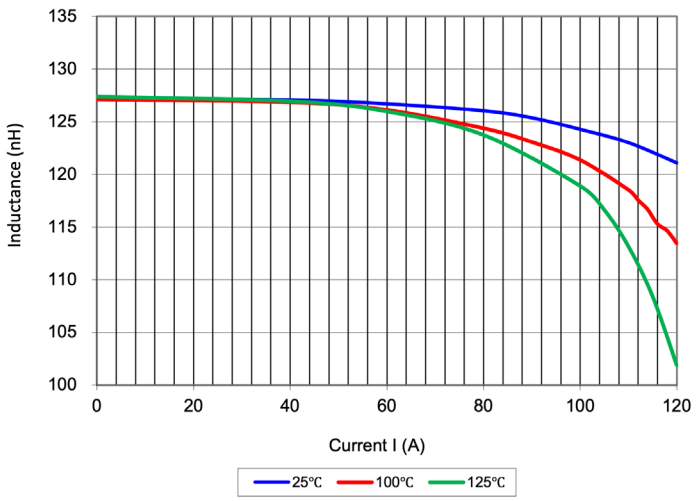
Dimensions: mm

Unless otherwise specified , all tolerances are ± 0.25

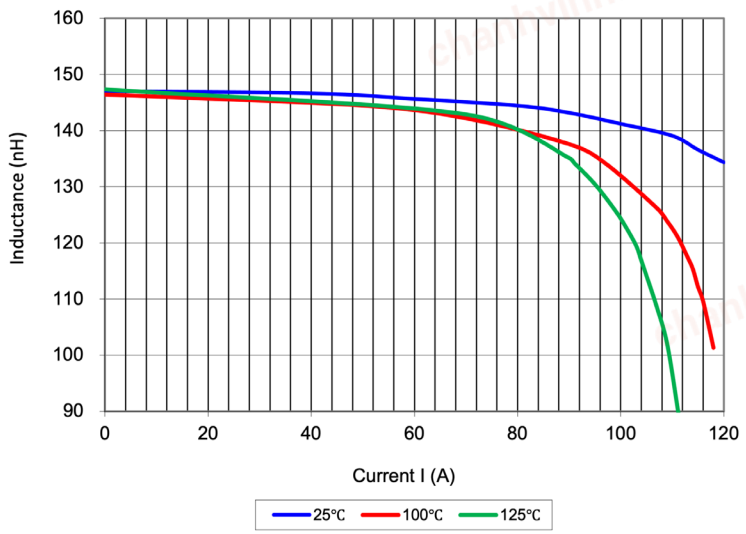
chanhvinh.com

L vs I Curves

PGL6395.700HLT, L vs I Curve

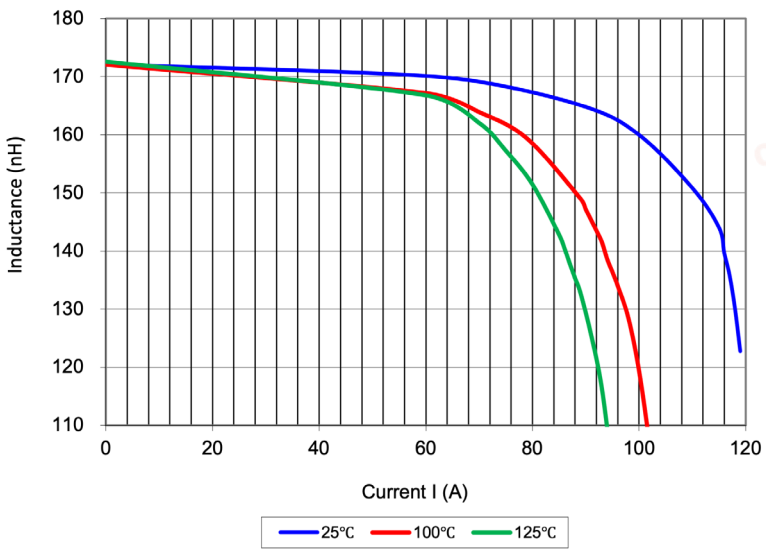


PGL6395.101HLT, L vs I Curve

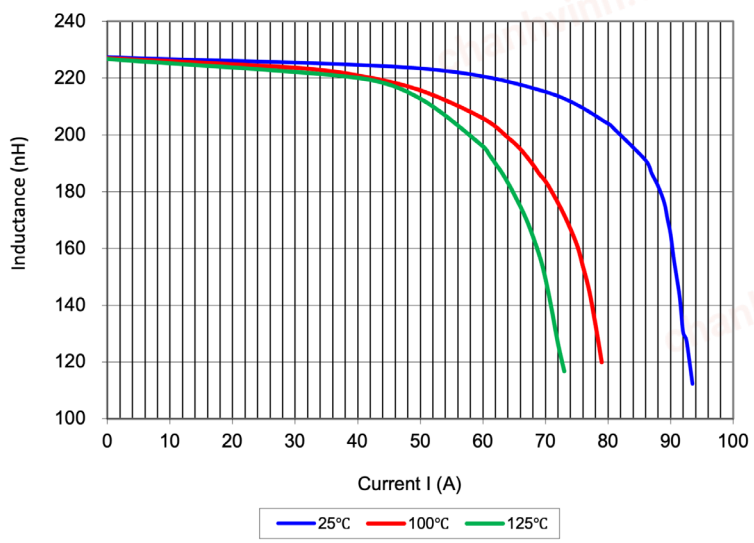


chanhvinh.com

PGL6395.121HLT, L vs I Curve



PGL6395.221HLT, L vs I Curve

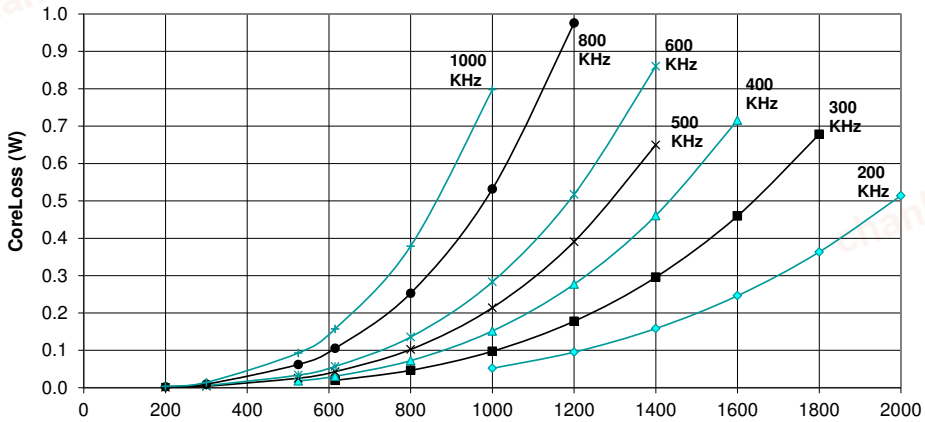


chanhvinh.com

SMT Power Inductors

Power Beads - PGL6395.XXXHLT Series

PGL6395.XXXHLT Coreloss



ΔB

where $\Delta B = 0.37 * L(nH) * \Delta I$

chanhvinh.com

For More Information:

Americas - prodinfo_power_americas@yageo.com | **Europe -** prodinfo_power_emea@yageo.com | **Asia -** prodinfo_power_asia@yageo.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, 2022. Pulse Electronics, Inc. All rights reserved.