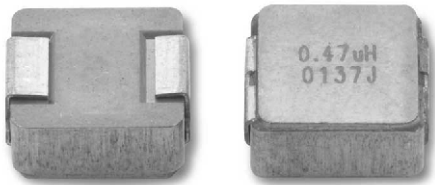


5 % DCR Tolerance, Low Profile, IHLP® Power Inductor



Manufactured under one or more of the following:
US Patents; 6,198,375/6,204,744/6,449,829/6,460,244.
 Several foreign patents, and other patents pending.

FEATURES

- Lowest height (3.0 mm) in this package footprint
- Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- 100 % lead (Pb)-free and RoHS compliant

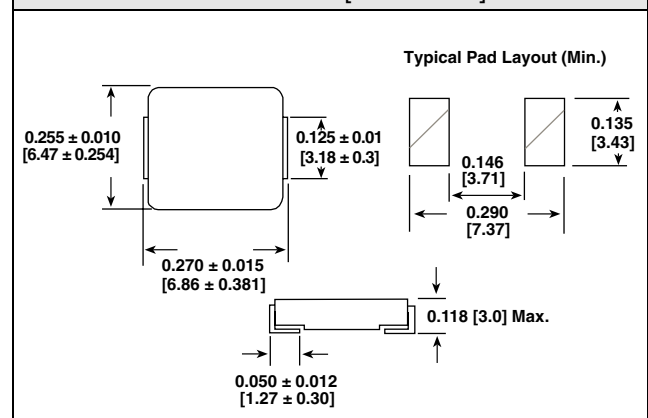

APPLICATIONS

- Tolerance DCR for current sense applications
- Improved current balance in phased power supplies
- Improved thermal management
- PDA/Notebook/Desktop/Server and Battery powered devices
- High current, Low profile POL converters
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Arrays (FPGA)

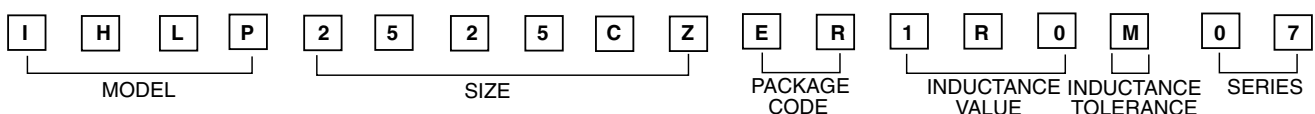
STANDARD ELECTRICAL SPECIFICATIONS			
Lo INDUCTANCE μH ± 20 % at 100 kHz, 0.25 V, 0 A	DCR mΩ ± 5 % at 25 °C	HEAT RATING CURRENT DC AMPS ³ TYPICAL	SATURATION CURRENT DC AMPS ⁴ TYPICAL
0.10	1.37	32.5	60
0.15	1.85	26	52
0.20	2.34	24	41
0.33	3.20	20	30
0.47	3.86	17.5	26
0.68	5.20	15.5	25
0.82	7.41	13	24
1.0	8.44	11	22
1.5	14.50	9	18
2.2	17.73	8	14
3.3	28.21	6	13.5
4.7	37.11	5.5	10
8.2	61.47	4	7.5
10	97.71	3	7.0

NOTES:

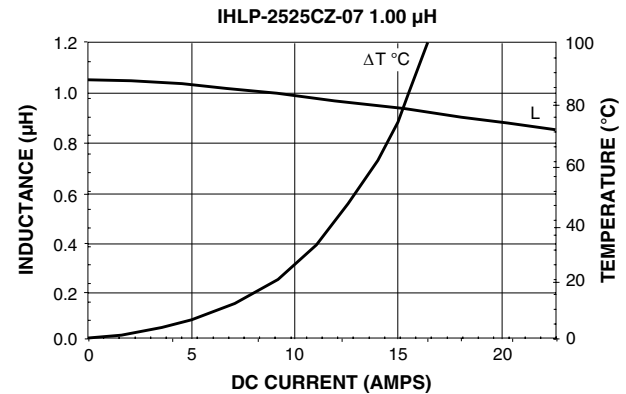
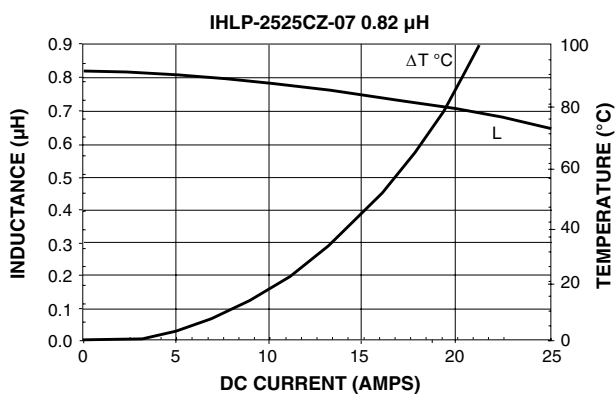
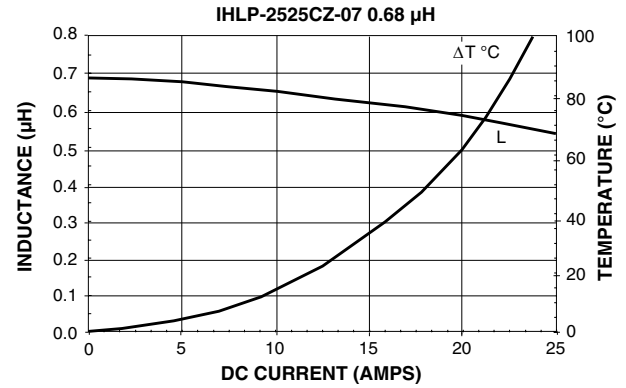
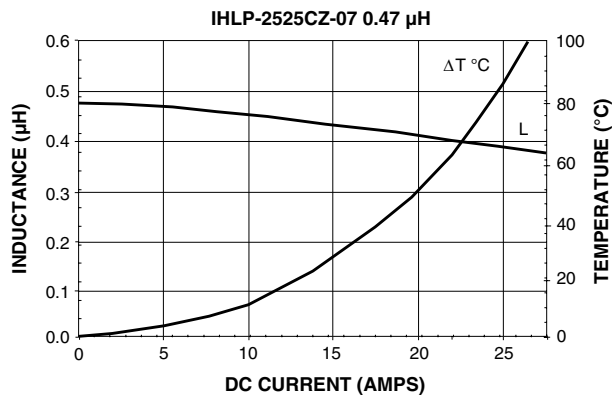
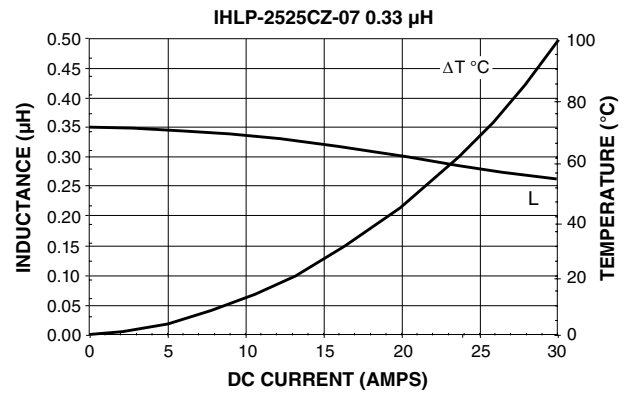
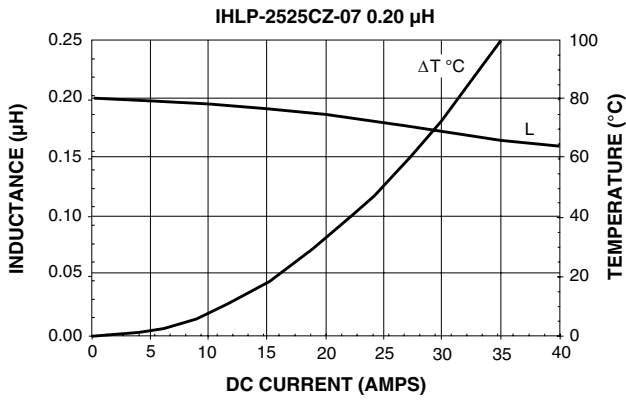
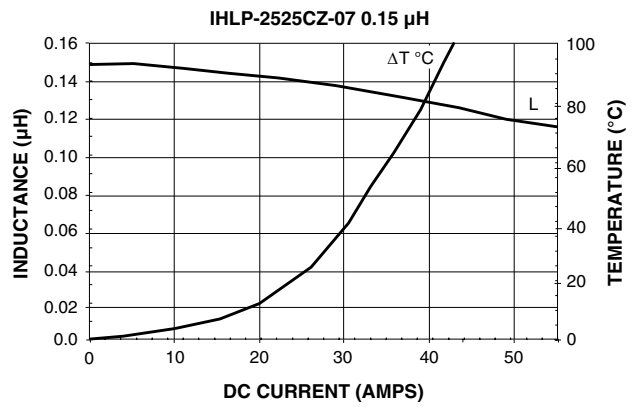
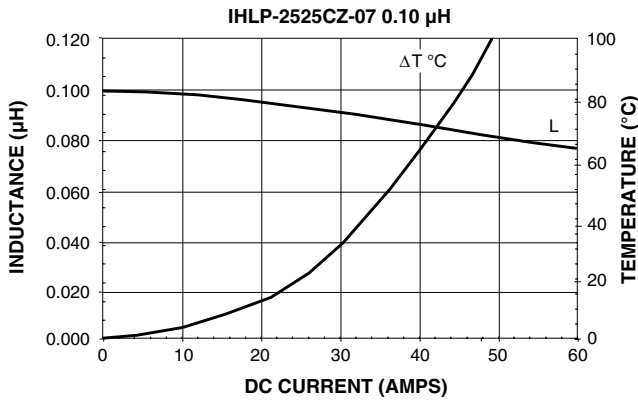
1. All test data is referenced to 25 °C ambient
2. Operating Temperature Range - 55 °C to + 125 °C
3. DC current (A) that will cause an approximate ΔT of 40 °C
4. DC current (A) that will cause Lo to drop approximately 20 %
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

DIMENSIONS in inches [millimeters]

DESCRIPTION

IHLP-2525CZ-07 MODEL	1.0 μH INDUCTANCE VALUE	± 20 % INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD
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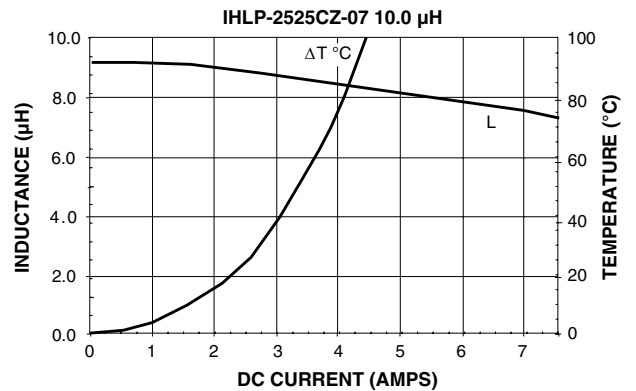
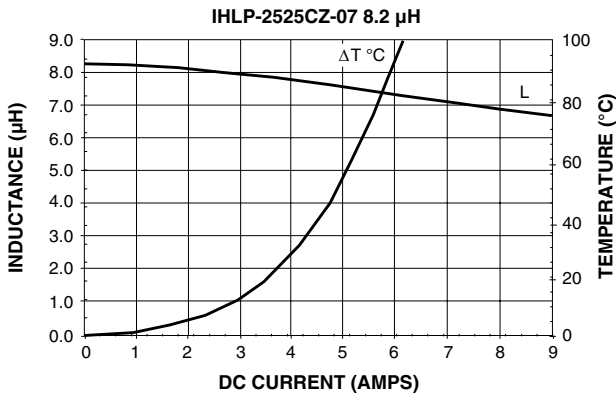
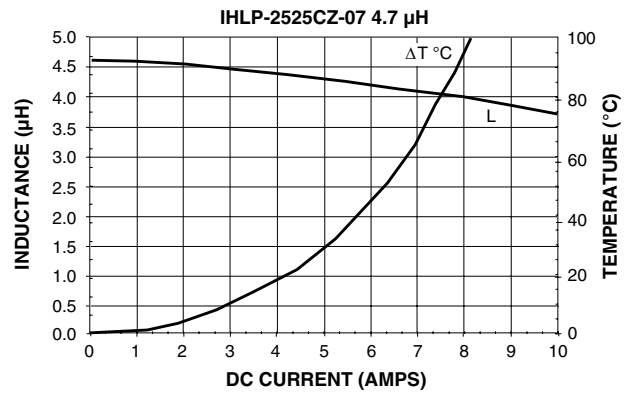
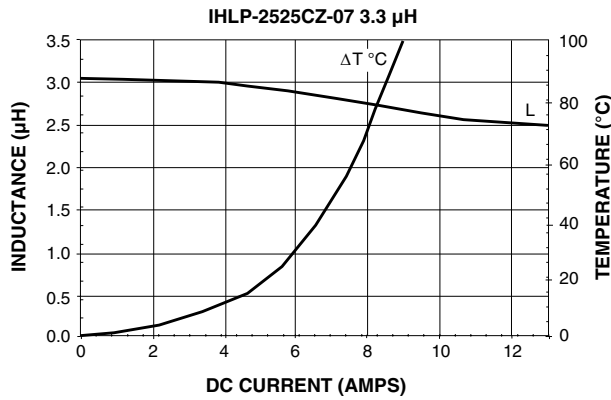
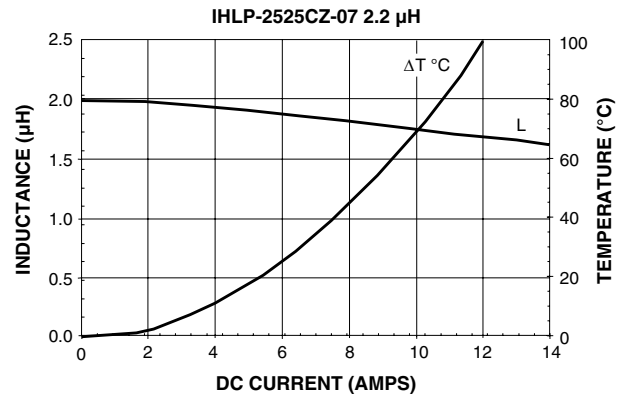
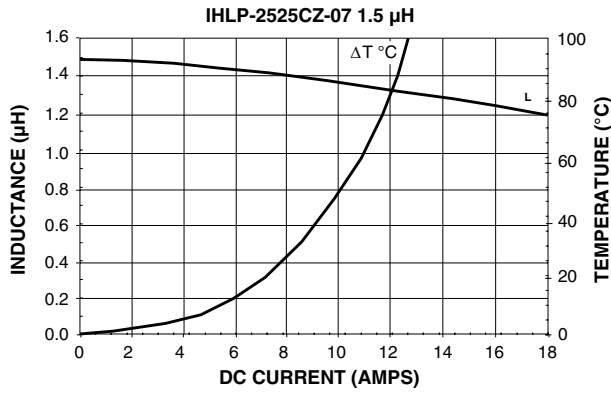
GLOBAL PART NUMBER


PERFORMANCE GRAPHS





PERFORMANCE GRAPHS





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