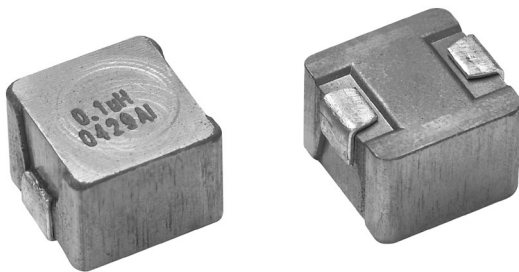


Low Profile, High Current Inductor



FEATURES

- Shielded construction.
- Frequency range up to 5.0MHz.
- Lowest DCR/ μ H, 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

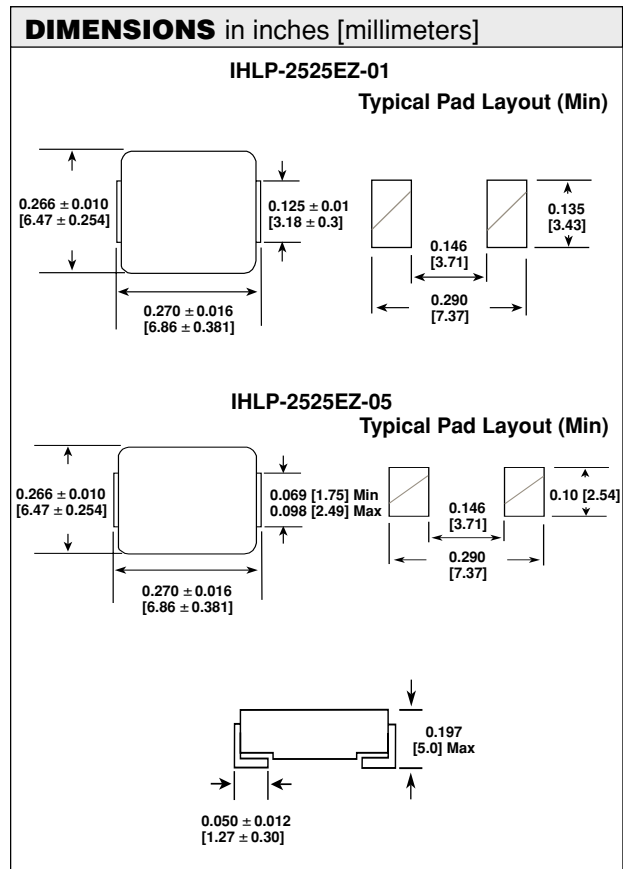
- Notebook/Desktop/Server applications.
- High current POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array (FPGA).

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.

STANDARD ELECTRICAL SPECIFICATIONS					
MODEL NUMBER ⁶	Lo INDUCTANCE μ H $\pm 20\%$ @100KHz 0.25V, 0A	DCR m Ω TYPICAL 25°C	DCR m Ω MAX 25°C	HEAT RATING CURRENT DC AMPS ⁴ TYPICAL	SATURATION CURRENT DC AMPS ³ TYPICAL
IHLP-2525EZ-05	0.10	0.81	0.93	33	70
IHLP-2525EZ-05	0.15	1.22	1.40	30	42
IHLP-2525EZ-05	0.22	1.97	2.27	26	41
IHLP-2525EZ-05	0.33	2.55	2.93	22	32
IHLP-2525EZ-05	0.47	2.68	3.08	21	22
IHLP-2525EZ-05	0.56	2.88	3.31	19	20
IHLP-2525EZ-05	0.68	3.94	4.53	17	19
IHLP-2525EZ-05	0.82	4.75	5.46	15	18
IHLP-2525EZ-05	1.0	5.54	6.37	14	17
IHLP-2525EZ-05	1.5	7.30	8.00	12	16
IHLP-2525EZ-05	2.2	11.1	12.2	8	15
IHLP-2525EZ-01	3.3	20.3	22.3	7	13
IHLP-2525EZ-01	4.7	27.7	31.8	6	12
IHLP-2525EZ-01	5.6	32.1	36.9	5	11
IHLP-2525EZ-01	6.8	43.8	48.2	4.5	10
IHLP-2525EZ-01	8.2	60.6	63.5	4	8
IHLP-2525EZ-01	10.0	78.1	85.9	3	7

NOTES:

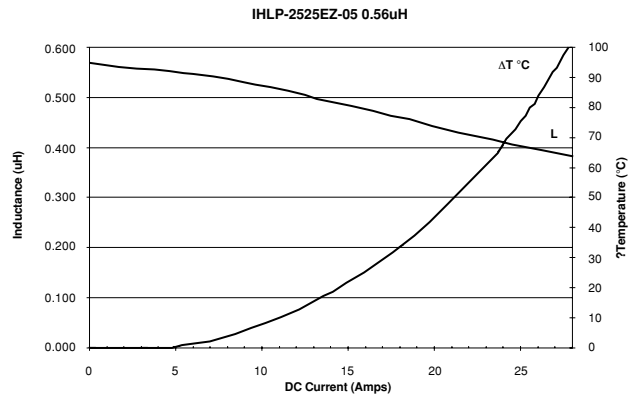
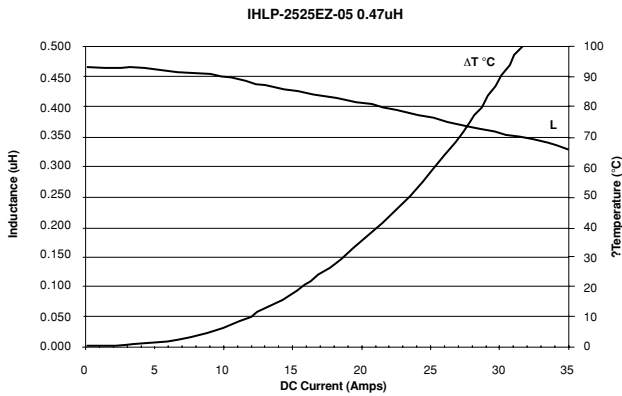
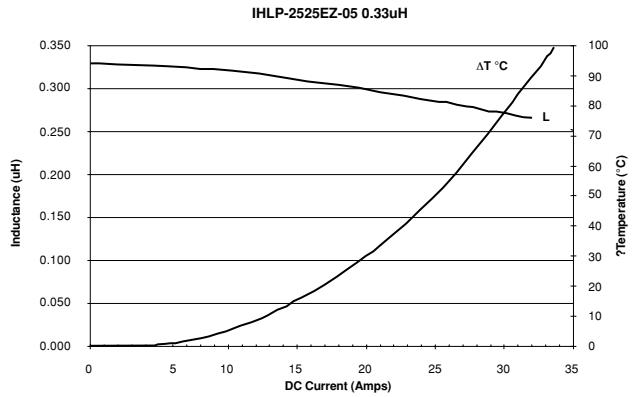
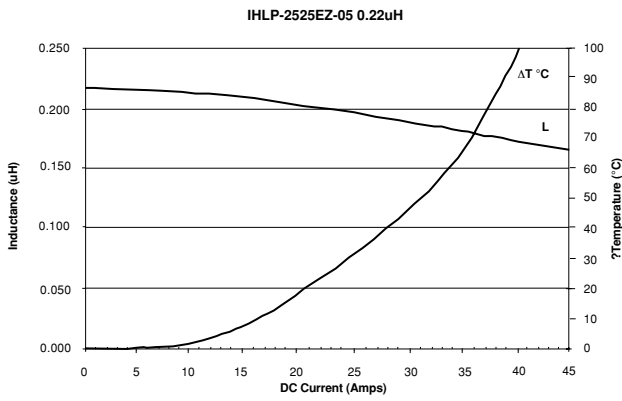
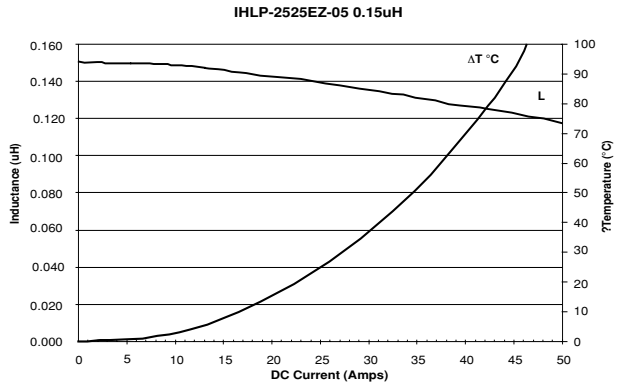
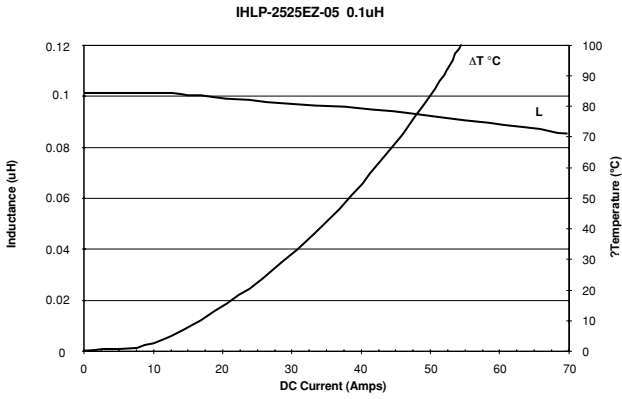
1. All test data is referenced to 25°C ambient.
2. Operating Temperature Range - 55°C to + 125°C
3. DC current (A) that will cause an approximate Δ T of 40°C.
4. DC current (A) that will cause Lo to drop approximately 20%
5. The part temperature (ambient + temp rise) should not exceed 125°C under worst 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.
6. -.05 are lead-frameless terminations. -01 are lead-frame terminations.



DESCRIPTION				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JDEC LEAD FREE STANDARD
IHLP-2525EZ-05	1.0 μ H	$\pm 20\%$	ER	e3
GLOBAL PART NUMBER				
I H L P	2 5 2 5	E Z	E R	1 R 0 M 0 5
MODEL	SIZE		PACKAGE CODE	INDUCTANCE VALUE INDUCTANCE TOLERANCE

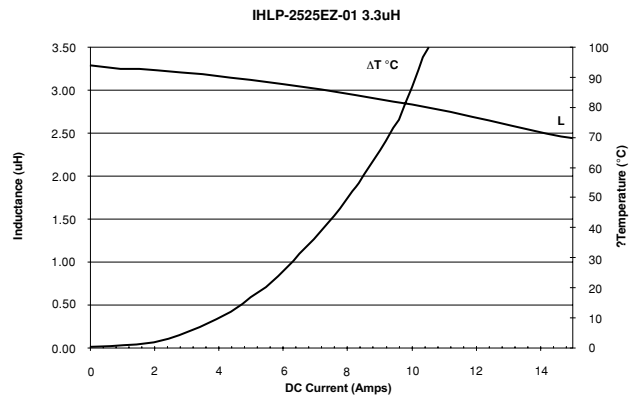
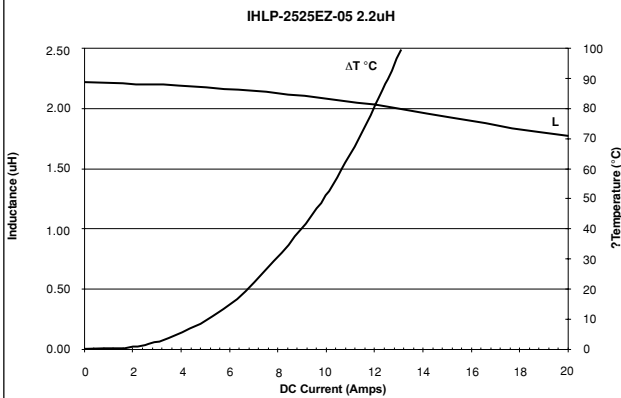
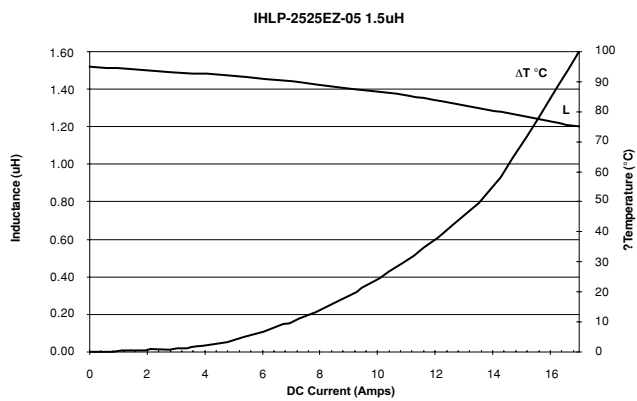
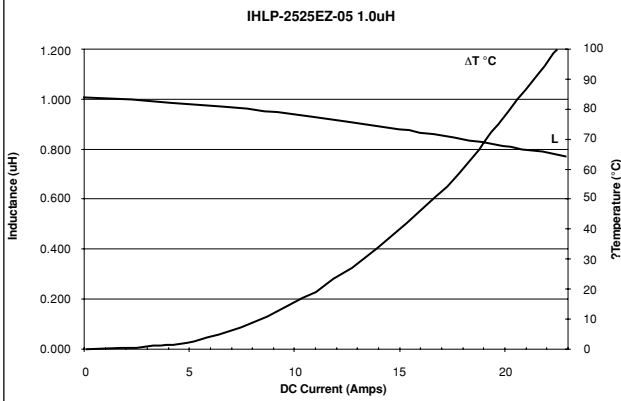
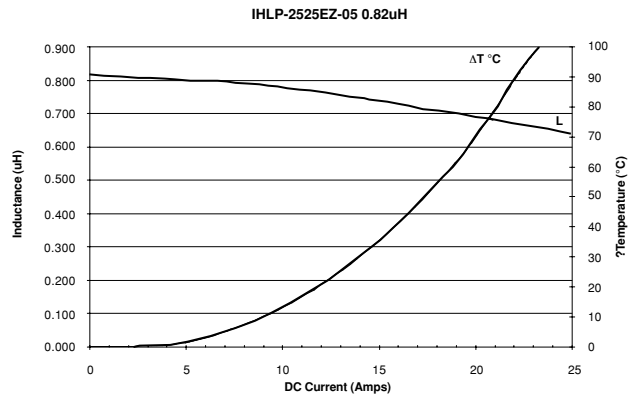
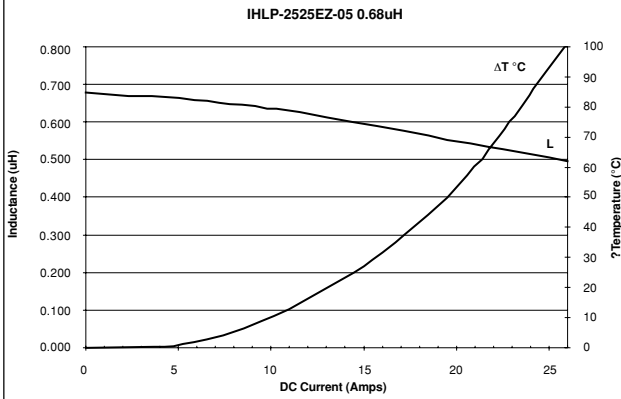


PERFORMANCE GRAPHS





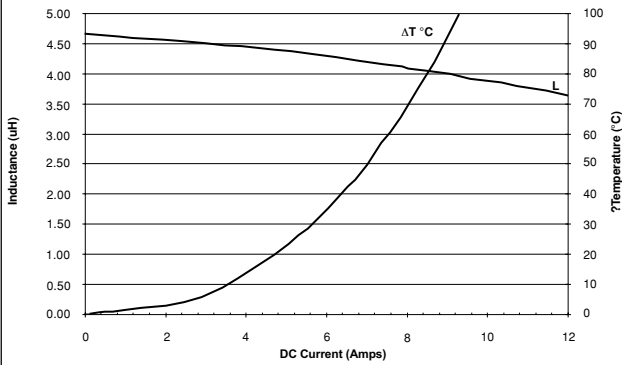
PERFORMANCE GRAPHS



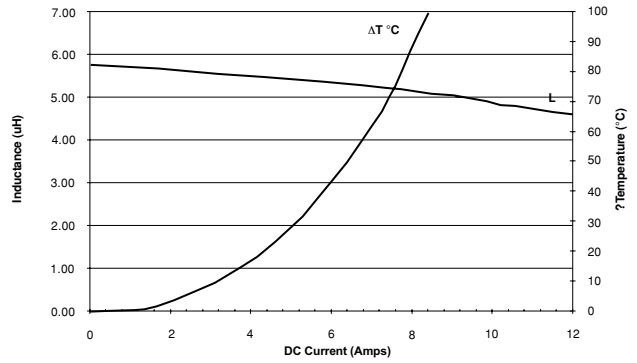


PERFORMANCE GRAPHS

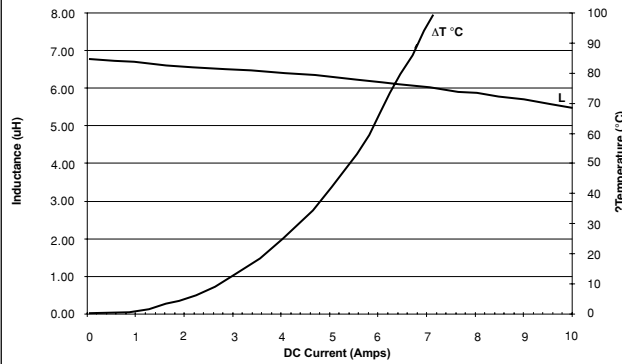
IHLP-2525EZ-01 4.7uH



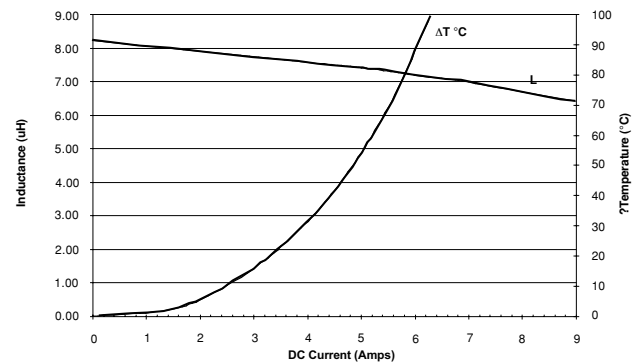
IHLP-2525EZ-01 5.6uH



IHLP-2525EZ-01 6.8uH



IHLP-2525EZ-01 8.2uH



IHLP-2525EZ-01 10uH

