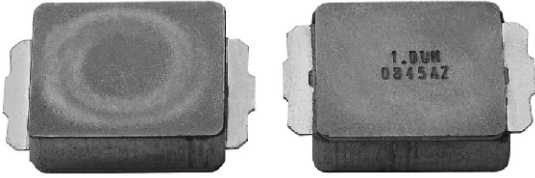


Low Profile, High Current Inductor



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

- Shielded construction
- Frequency range up to 1.0 MHz
- Lowest DCR/ μH , in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Compliant to RoHS directive 2002/95/EC



RoHS
COMPLIANT

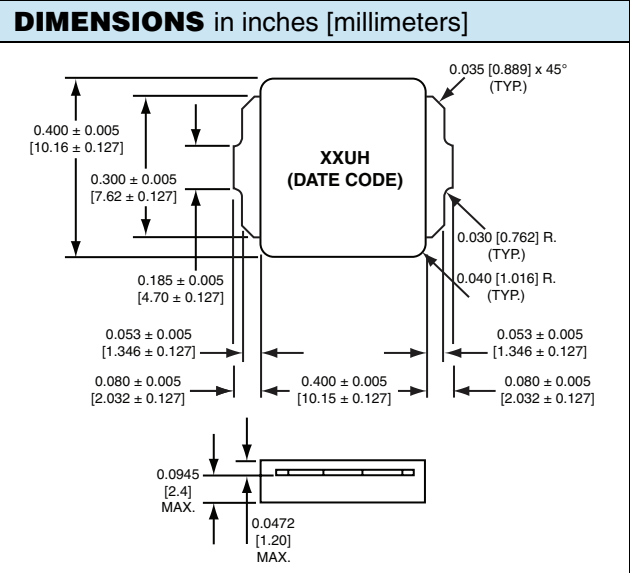
APPLICATIONS

- PDA/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)

STANDARD ELECTRICAL SPECIFICATIONS				
L_0 INDUCTANCE $\pm 20\%$ AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (m Ω)	DCR MAX. 25 °C (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽³⁾	SATURATION CURRENT DC TYP. (A) ⁽⁴⁾
0.10	0.70	0.80	46	48
0.15	0.79	0.85	45	46
0.22	0.83	0.90	35.5	36
0.33	1.09	1.18	33.5	33.5
0.47	1.60	1.69	31	22
0.56	1.71	1.81	30.5	23
0.68	2.05	2.16	29	20
0.82	2.46	2.60	24	19
1.0	2.67	2.82	24	18
1.5	4.20	4.43	20	14.5
2.2	6.83	7.21	16	14

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 L_0 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.

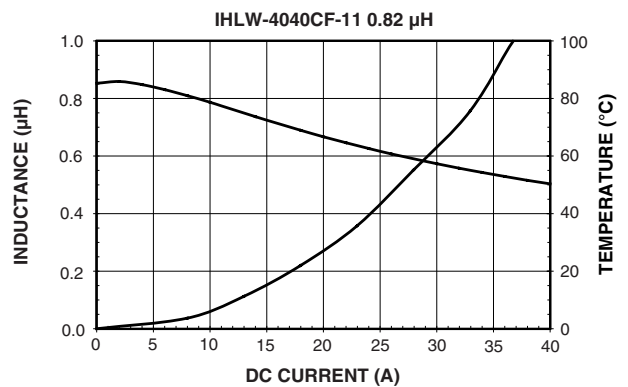
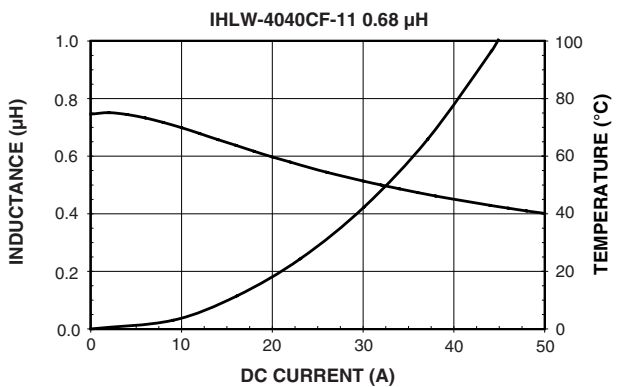
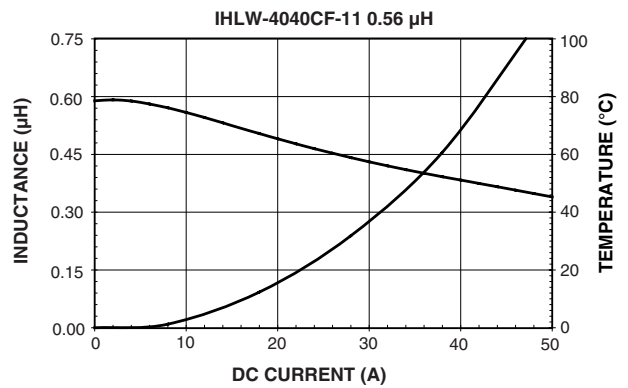
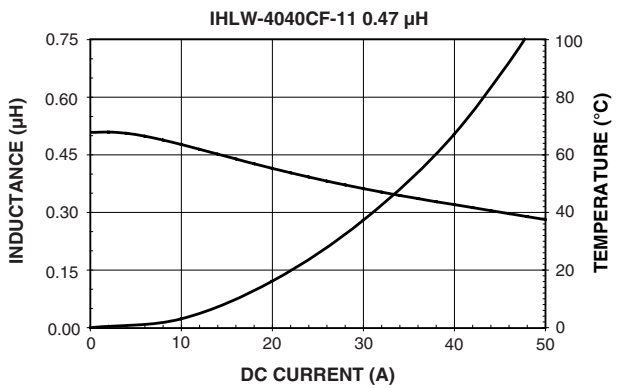
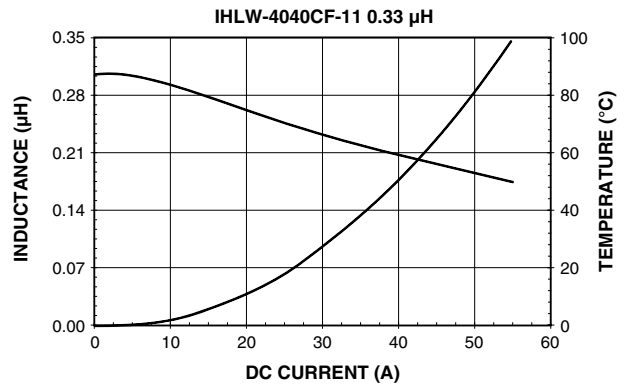
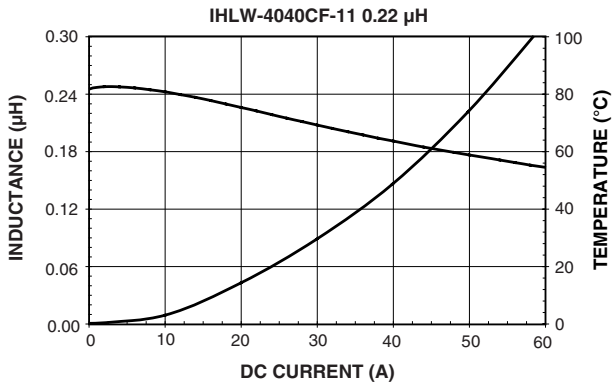
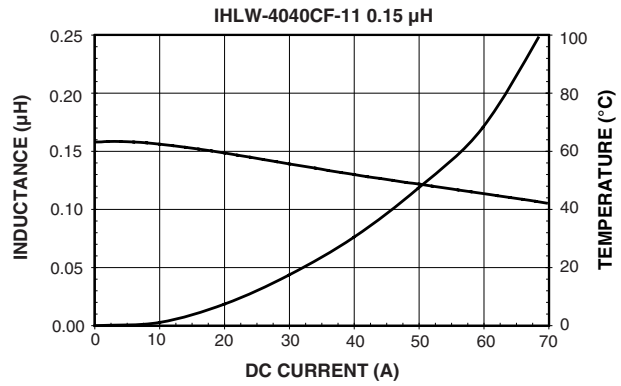
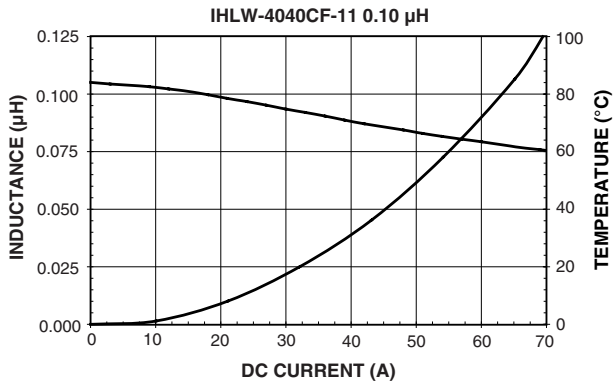


DESCRIPTION				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD
IHLW-4040CF-11	1.0 μH	$\pm 20\%$	ER	e3

GLOBAL PART NUMBER											
PRODUCT FAMILY	SIZE				PACKAGE CODE	INDUCTANCE VALUE	TOL.	SERIES			
IHLW	4	0	4	0	CF	1	R	0	M	1	1

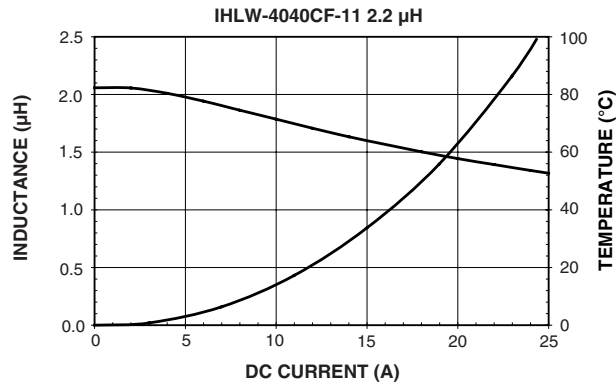
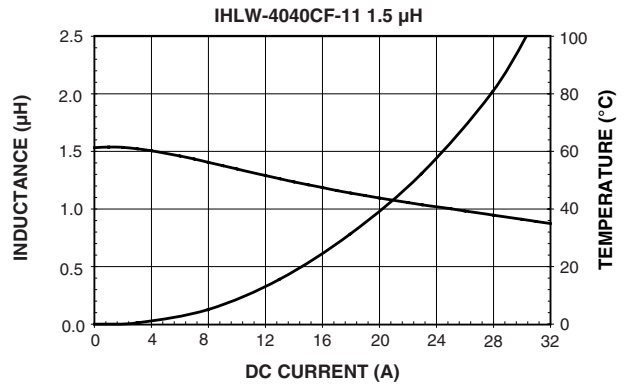
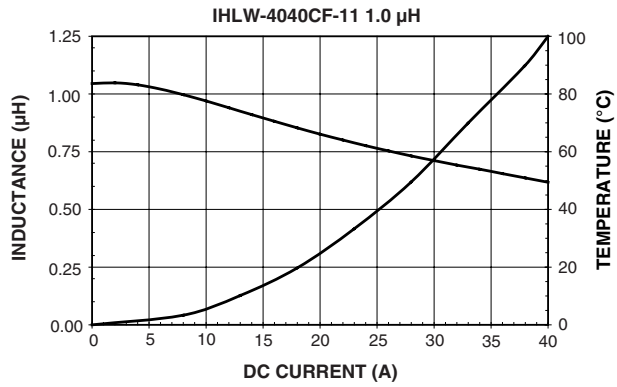


PERFORMANCE GRAPHS





PERFORMANCE GRAPHS





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