

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 5.0 MHz
- 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

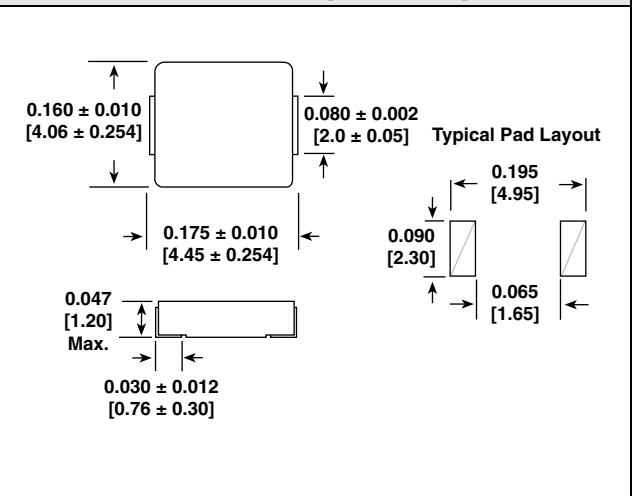
- PDA/Notebook/Desktop/Server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

STANDARD ELECTRICAL SPECIFICATIONS				
Lo INDUCTANCE μ H \pm 20 % at 100 kHz, 0.25 V, 0 A	DCR m Ω TYPICAL 25 °C	DCR m Ω MAX 25 °C	HEAT RATING CURRENT DC AMPS ³ TYPICAL	SATURATION CURRENT DC AMPS ⁴ TYPICAL
0.047	3.25	3.75	13.0	32.0
0.10	5.50	6.00	11.5	25.0
0.22	11.0	12.0	8.5	20.0
0.47	20.0	22.0	5.0	13.0
1.00	50.0	52.5	4.0	8.5

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.

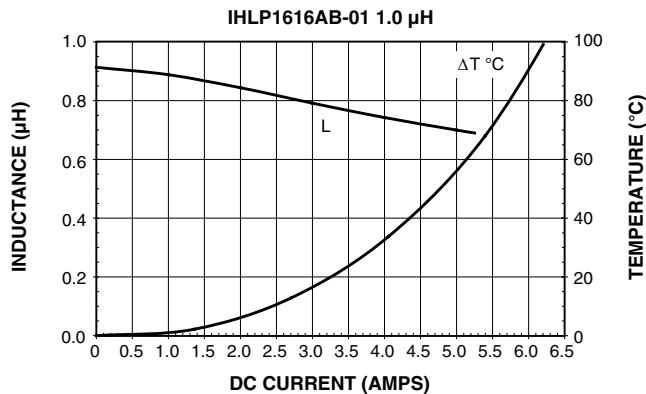
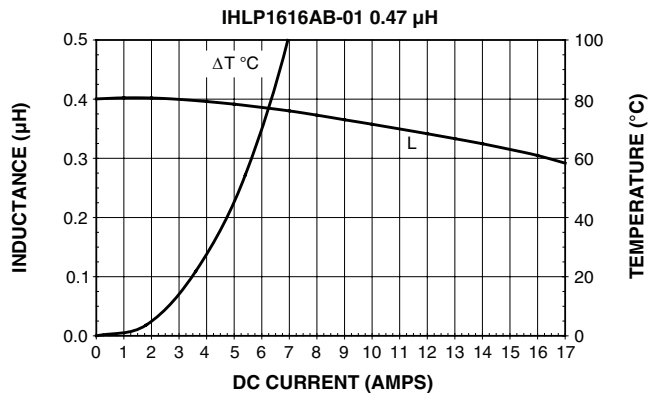
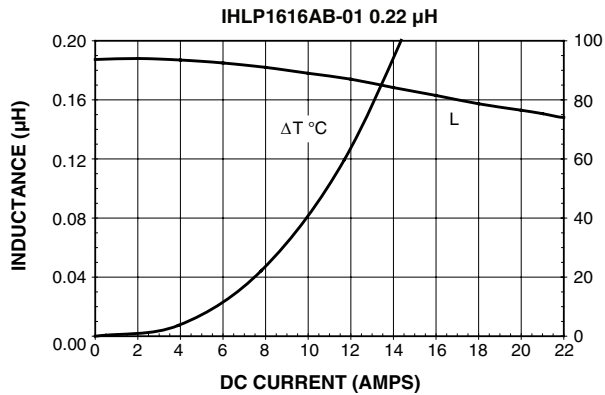
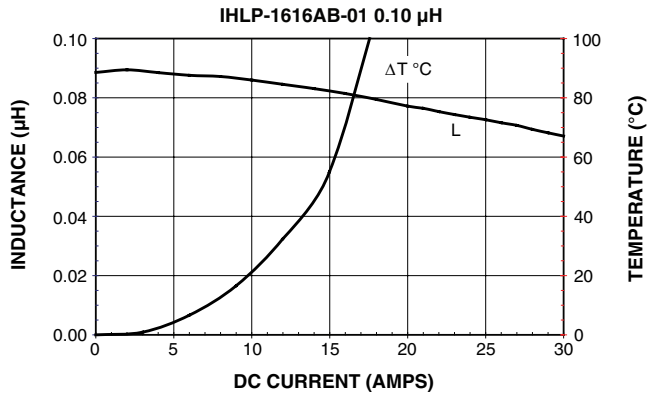
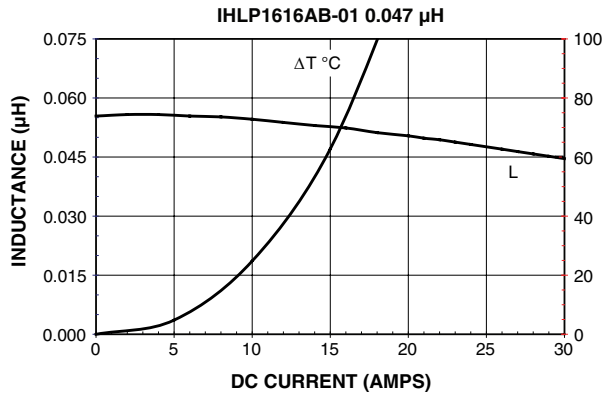
DIMENSIONS in inches [millimeters]



DESCRIPTION																	
IHLP-1616AB-01 MODEL		0.47 μ H INDUCTANCE VALUE		\pm 20 % INDUCTANCE TOLERANCE		ER PACKAGE CODE		e3 JEDEC LEAD (Pb)-FREE STANDARD									
GLOBAL PART NUMBER																	
I	H	L	P	1	6	1	6	A	B	E	R	R	4	7	M	0	1
MODEL				SIZE				PACKAGE CODE		INDUCTANCE VALUE		INDUCTANCE TOLERANCE		SERIES			



PERFORMANCE GRAPHS





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