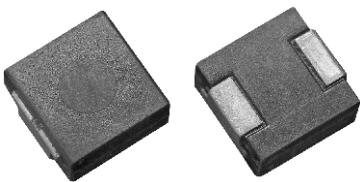


Low Profile, High Current Inductors - Special Molding



DESIGN SUPPORT TOOLS

3D
Models Available


Design Tools Available

FEATURES

- Lowest molded height (3.0 mm) in this package footprint
- 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
- Encapsulated body offers improved environmental protection and moisture resistance
- Higher dielectric withstanding voltage vs. IHLP
- Flame retardant encapsulant (UL 94 V-0)
- Corrosion resistant package
- IHLP design. PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS				
INDUCTANCE $\pm 20\%$ AT 100 kHz, 0.25 V, 0 A (μ H)	DCR TYP. 25 °C (m Ω)	DCR MAX. 25 °C (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) ⁽²⁾
0.10	1.5	1.7	32.5	60
0.15	1.9	2.5	26	52
0.20	2.4	3.0	24	41
0.22	2.5	2.8	23	40
0.33	3.5	3.9	20	30
0.47	4	4.2	17.5	26
0.68	5	5.5	15.5	25
0.82	6.7	8	13	24
1.0	9	10	11	22
1.5	14	15	9	18
2.2	18	20	8	14
3.3	28	30	6	13.5
4.7	37	40	5.5	10
6.8	54	60	4.5	8
8.2	64	68	4	7.5
10	102	105	3	7.0

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- 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
- Rated operating voltage (across inductor) = 75 V

⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C

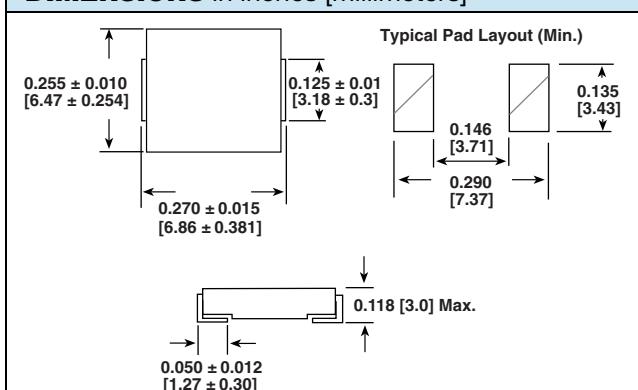
⁽²⁾ DC current (A) that will cause L_0 to drop approximately 20 %

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)
- Harsh environments including moisture, chemicals and salt spray

DIMENSIONS

in inches [millimeters]



DESCRIPTION

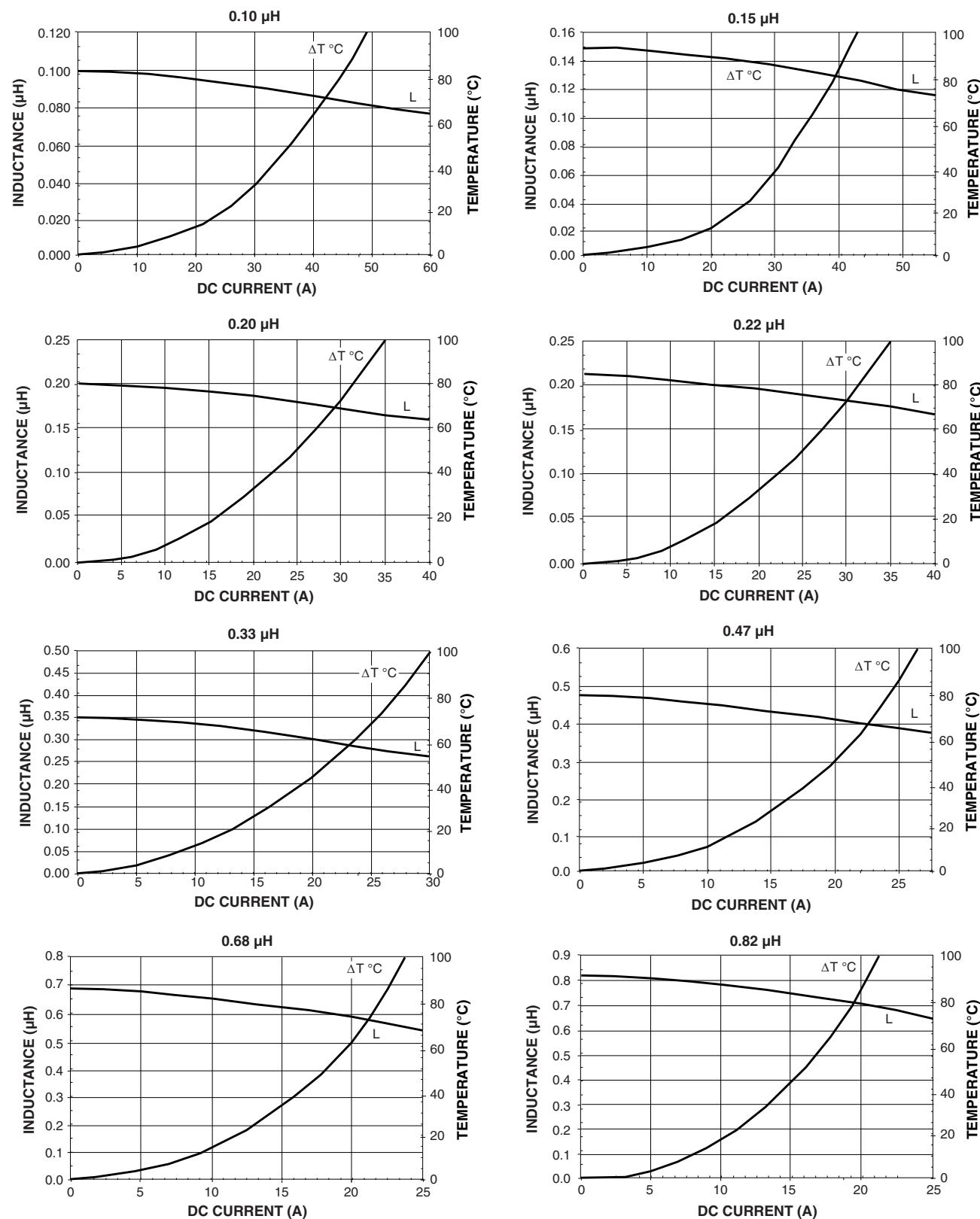
IHLM-2525CZ-01	1.0 μ H	$\pm 20\%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

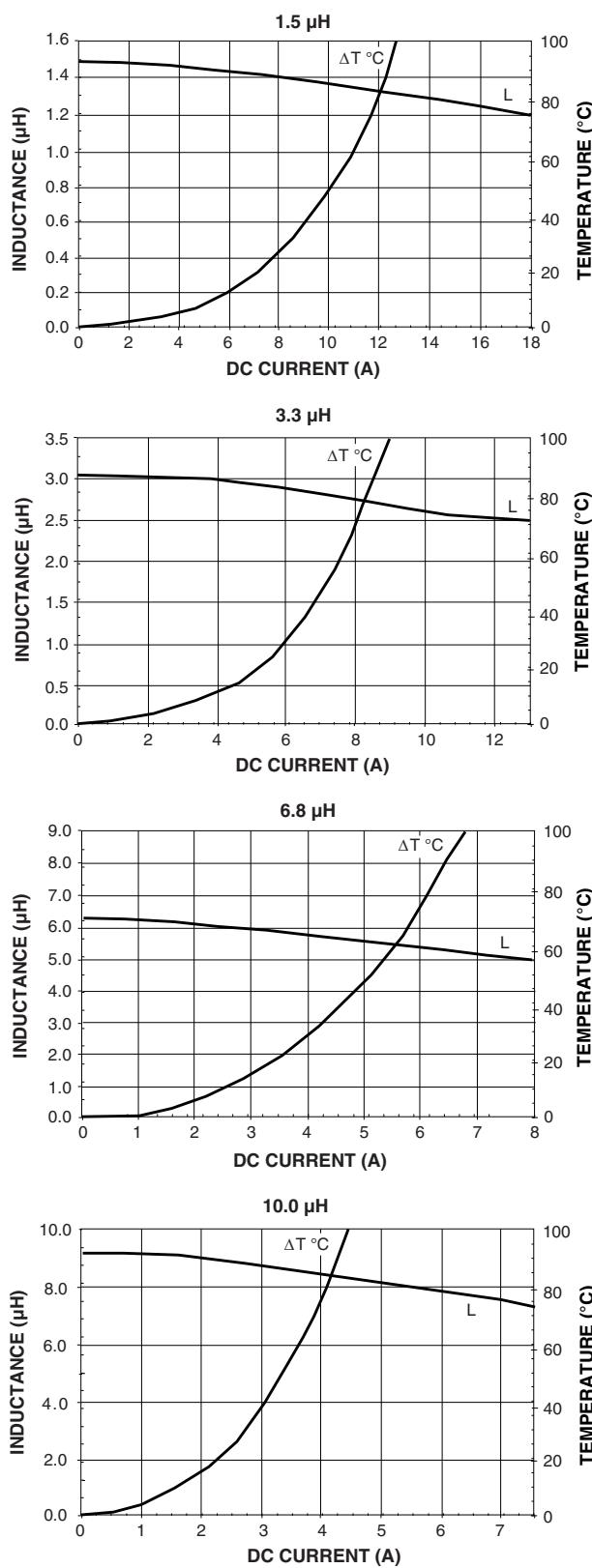
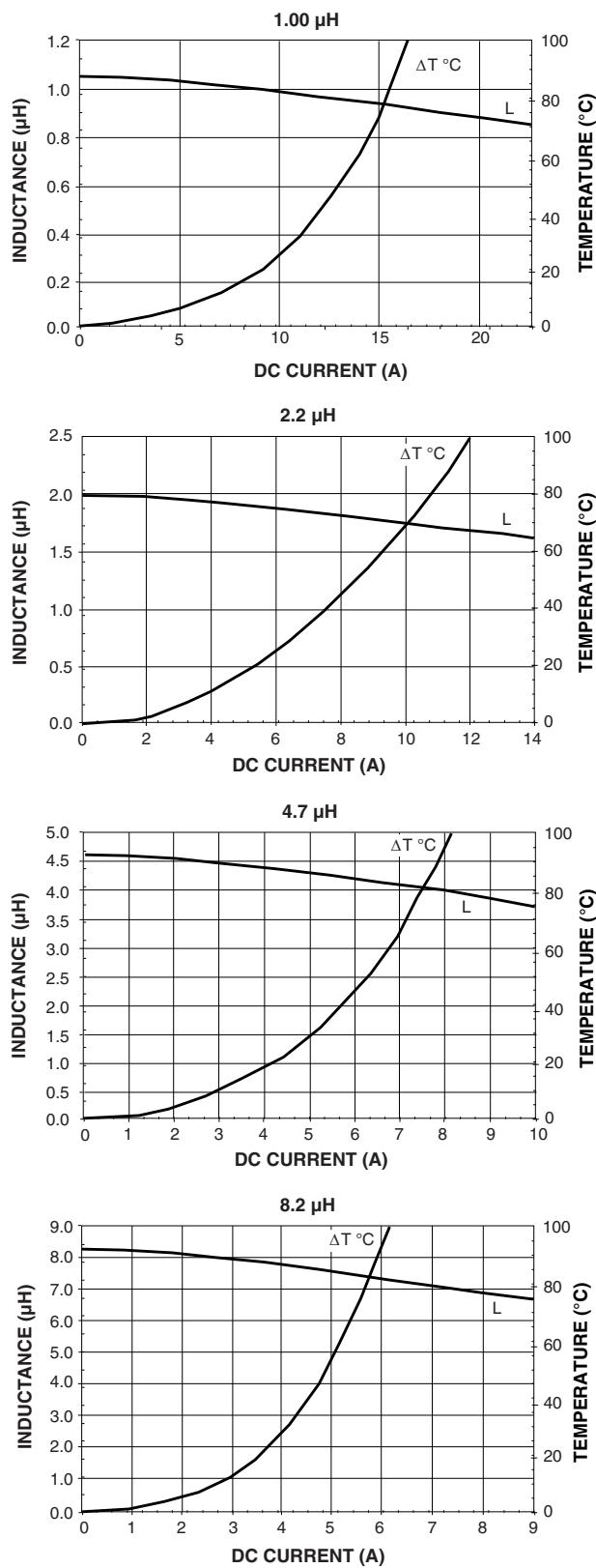
GLOBAL PART NUMBER

I	H	L	M	2	5	2	5	C	Z	E	R	1	R	0	M	0	1
PRODUCT FAMILY				SIZE				PACKAGE CODE				INDUCTANCE VALUE				TOL.	
																SERIES	

PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.

PERFORMANCE GRAPHS


PERFORMANCE GRAPHS


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