

Vishay Dale

AUTOMOTIVE

GREEN

(5-2008)

Low Profile, High Current IHLP® Inductors





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						
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25°C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽³⁾	SATURATION CURRENT DC TYP. (A) (4)		
0.10	0.53	0.60	55.0	118.0		
0.22	0.64	0.80	51.0	110.0		
0.33	0.85	1.1	42.0	80.0		
0.47	1.1	1.3	38.0	65.0		
0.56	1.3	1.5	36.0	55.0		
0.68	1.5	1.7	34.0	54.0		
0.82	2.0	2.3	31.0	53.0		
1.0	2.1	2.5	29.0	50.0		
1.5	3.4	4.1	23.0	48.0		
1.8	4.2	4.9	19.0	40.0		
2.2	4.6	5.5	17.0	32.0		
3.3	7.7	9.2	15.0	32.0		
4.7	12.8	15.0	12.0	27.0		
5.6	14.0	16.5	11.5	22.0		
6.8	15.4	18.5	11.0	21.0		
7.8	17.2	20.5	10.0	18.0		
8.2	18.9	22.5	9.5	18.0		
10	21.4	25.5	9.0	16.0		

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 L₀ 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.

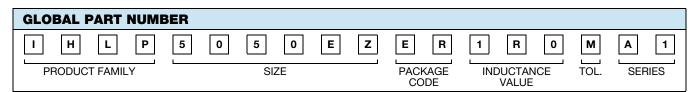
FEATURES

- 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
- AEC-Q200 qualified
- Compliant to RoHS Directive 2002/95/EC

APPLICATIONS

- Engine and transmission control units
- Diesel injection drivers
- DC/DC converters for entertainment/navigation systems
- Noise suppression for motors
- Windshield wipers
- Power seats
- Power mirrors
- Heating and ventilation blowers
- HID lighting
- LED drivers

DESCRIPTION	V			
IHLP-5050EZ-A1	1.0 µH	± 20 %	ER	e3
MODEL	INDLICTANCE VALUE	INDUCTANCE TO ERANCE	DACKAGE CODE	IEDEC I EAD (DW)-EBEE STANDARD



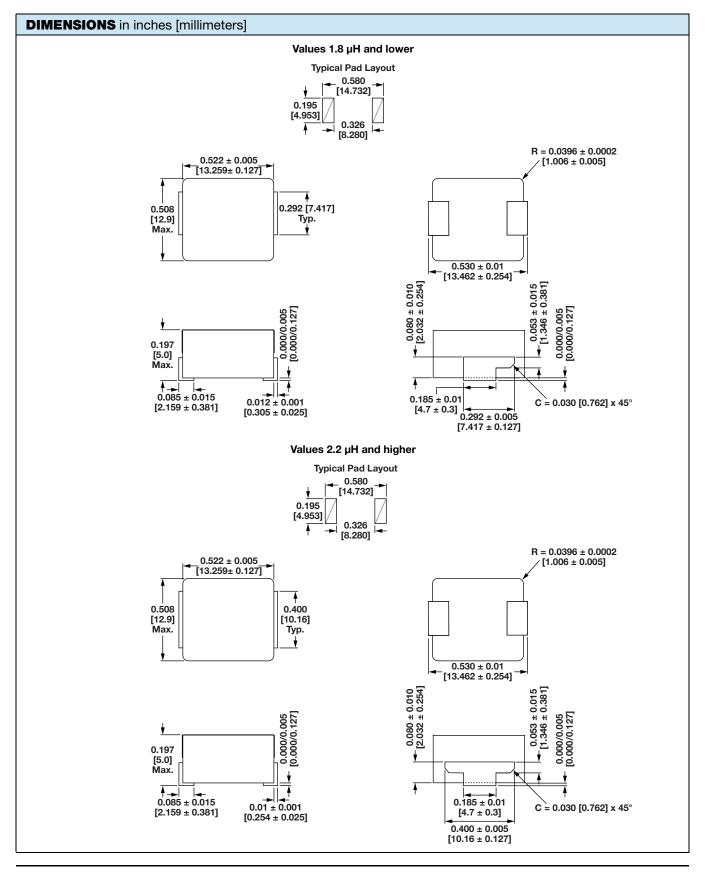
^{**} Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

Document Number: 34248 Revision: 17-May-11 For technical questions, contact: magnetics@vishay.com

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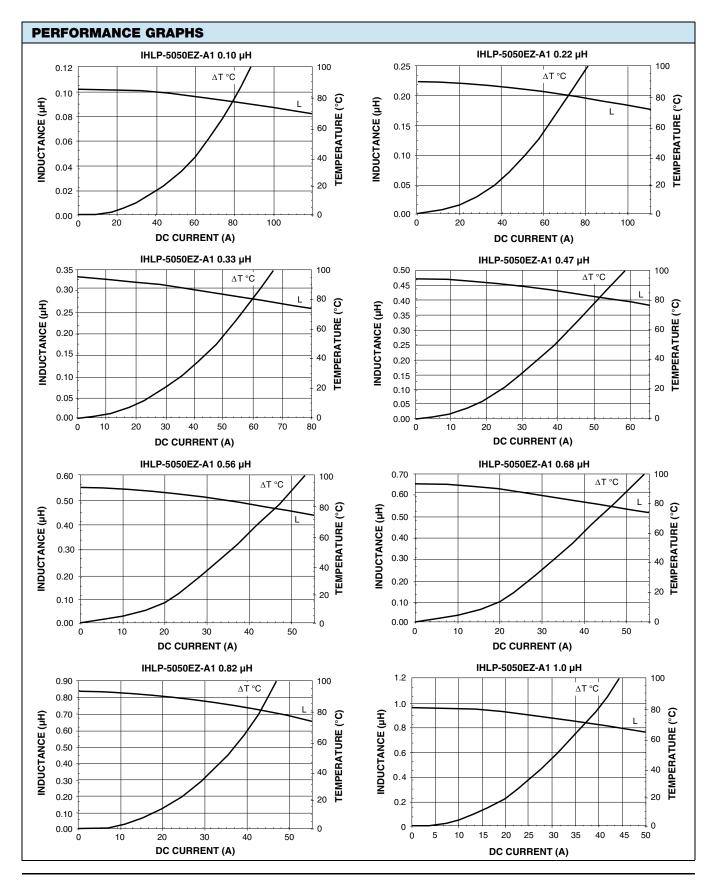






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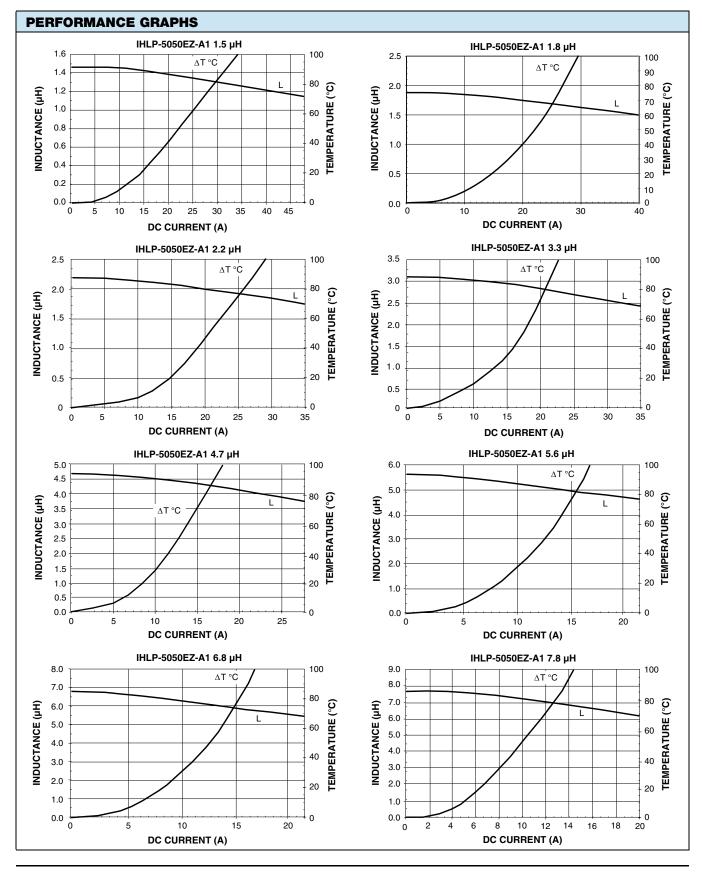
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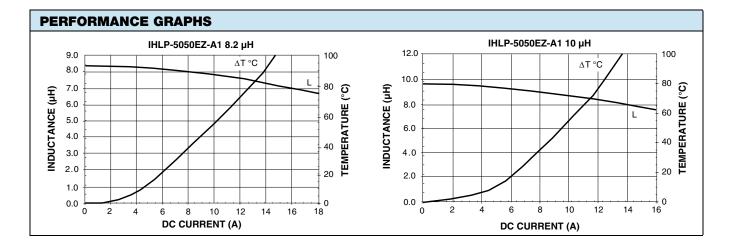






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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Revision: 02-Oct-12 Document Number: 91000

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