

Vishay Dale

GREEN

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)
0.56	3.4	3.6	20	12
0.68	4.2	4.5	18	11.5
0.82	4.6	4.9	16.5	13
1.0	5.6	6.5	13	15
1.5	8.6	9.0	12	12
2.2	13.0	13.6	10	10
3.3	19.9	20.9	8	8
4.7	28.9	30.3	6.5	7
5.6	32.7	34.4	6	7
6.8	42.5	44.6	5.5	5.5
8.2	48.3	50.7	5.0	5.0
10.0	67.9	71.3	4.5	4.5

Notes

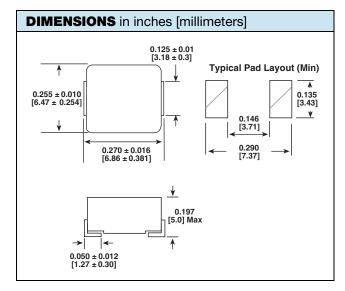
- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range 55 °C to + 125 °C
- $^{(3)}$ DC current (A) that will cause an approximate ΔT of 40 $^{\circ}$ C
- (4) DC current (A) that will cause L₀ to drop approximately 20 %
- (5) The part temperature (ambient + temp. rise) should 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.

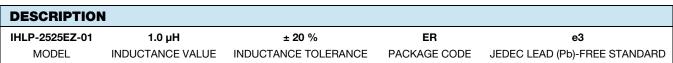
FEATURES

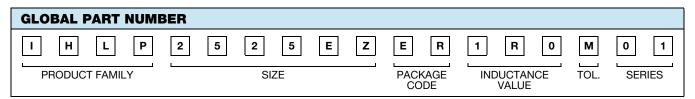
- · Shielded construction
- Frequency range below 1.0 MHz
- Lowest DCR/µH, in this package size
- Powdered iron composition provides soft saturation
- Handles high transient current spikes without saturation
- Saturation and inductance extremely stable over temperature
- Ultra low buzz noise, due to composite construction
- Compliant to RoHS Directive 2002/95/EC

APPLICATIONS

- Notebook/desktop/server applications
- High current POL converters
- Low profile, high current power supplies
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)



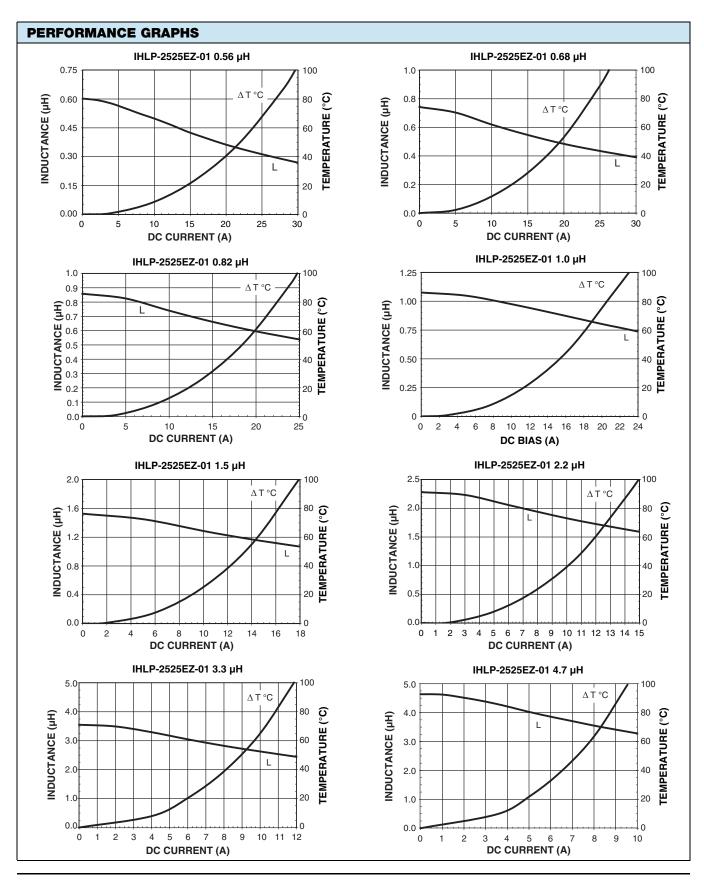




^{**} Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

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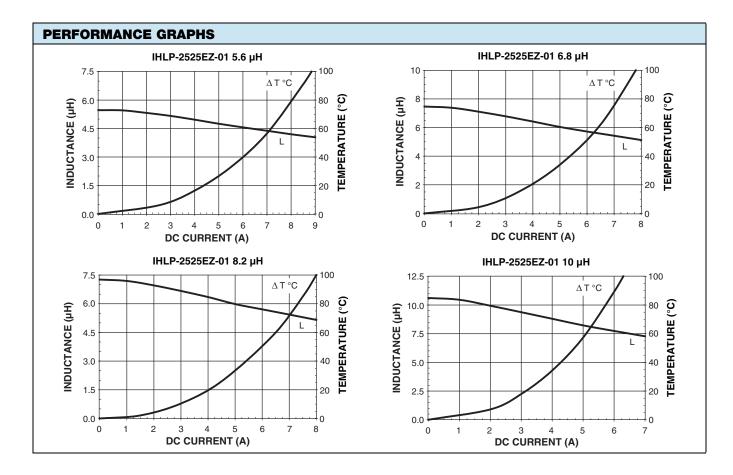


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Material Category Policy

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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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Mouser Electronics

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Vishay:

 IHLP2525EZER100M01
 IHLP2525EZER1R0M01
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 IHLP2525EZER3R3M01
 IHLP2525EZER4R7M01
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