

Excellent Integrated System Limited

Stocking Distributor

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Vishay/Dale IHLP2525AHER1R0M01

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Vishay/Dale: Excellent Integrated System Limited

Datasheet of IHLP2525AHER1R0M01 - FIXED IND 1UH 7A 18.3 MOHM SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



IHLP-2525AH-01

Vishay Dale

RoHS

COMPLIANT

HALOGEN FREE

GREEN

(5-2008)

Low-Profile, High-Current IHLP® 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.

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)
0.1	3.0	3.5	18	40
0.15	4.7	5.2	15	38
0.22	5.3	5.7	14	26
0.33	6.6	7.0	12	18
0.47	8.4	9.3	11	18
0.68	12.7	13.9	9	17
0.82	13.8	15.9	8	17
1.0	17.5	18.3	7	14
1.5	32.6	34.0	4	11.5
2.2	40.3	46.0	3.75	13
2.5	49.9	52.4	3.5	10.4
3.3	56.2	60.1	3.25	10
4.7	76.6	78.0	3	8

Notes

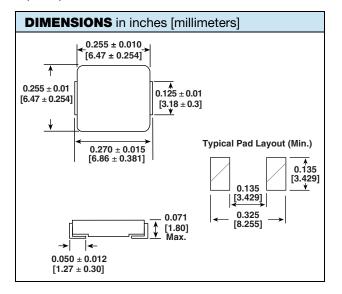
- (1) All test data is referenced to 25 °C ambient
- $^{(2)}$ Operating temperature range -55 °C to +125 °C
- $^{(3)}$ DC current (A) that will cause an approximate ΔT of 40 $^{\circ}C$
- $^{(4)}\,$ DC current (A) that will cause L_0 to drop approximately 20 %
- (5) The part temperature (ambient + temp. 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.

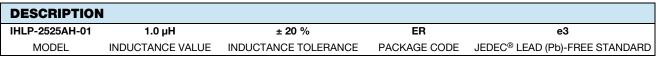
FEATURES

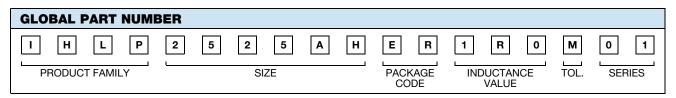
- Lowest height (1.8 mm) in this package footprint
- · Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

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)







Revision: 16-Jun-16 1 Document Number: 34125

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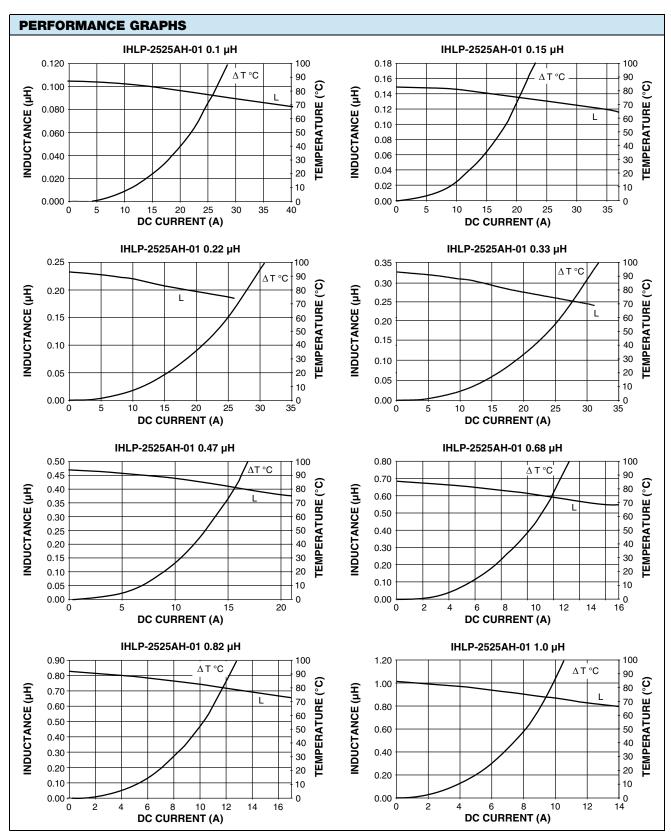
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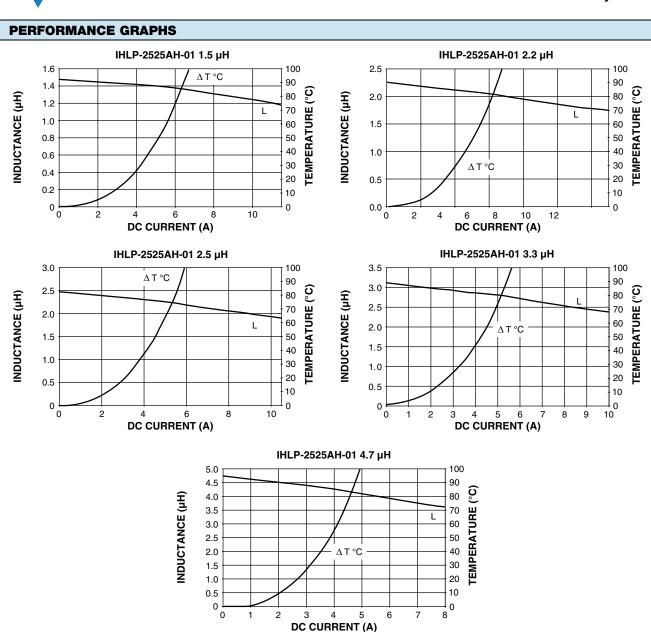
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Revision: 13-Jun-16 1 Document Number: 91000