

# **Excellent Integrated System Limited**

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Vishay/Dale IHLP2525CZER100M07

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



Distributor of Vishay/Dale: Excellent Integrated System Limited Datasheet of IHLP2525CZER100M07 - FIXED IND 10UH 3A 97.71 MOHM SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



www.vishay.com

### IHLP-2525CZ-07

Vishay Dale

## Low Profile, IHLP<sup>®</sup> Power Inductors -**DC Resistance Tolerance 5 %**



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 <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR ± 5 % AT 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(4)</sup>				
0.10	1.30	32.5	60				
0.15	1.85	26	52				
0.20	2.34	24	41				
0.33	3.20	20	30				
0.47	3.86	17.5	26				
0.68	5.20	15.5	25				
0.82	7.41	13	24				
1.0	8.44	11	22				
1.5	14.50	9	18				
2.2	17.73	8	14				
3.3	28.21	6	13.5				
4.7	37.11	5.5	10				
8.2	61.47	4	7.5				
10	97.71	3	7.0				

#### Notes

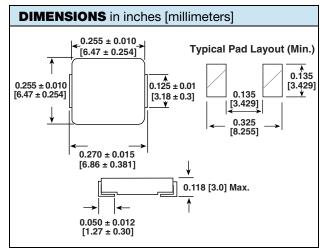
- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +125 °C
- (3) DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- (4) DC current (A) that will cause  $L_0$  to drop approximately 20 %
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, (5) 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 (3.0 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.vishay.com/doc?99912

#### APPLICATIONS

- Tolerance DCR for current sense applications
- Improved current balance in phased power supplies
- Improved thermal management
- PDA / notebook / desktop / server and battery powered devices
- High current, low profile POL converters
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)



DESCRIPTION							
IHLP-2525CZ-07	1.0 µH	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC <sup>®</sup> LEAD (P	b)-FREE STANDARD		
GLOBAL PAR	T NUMBER						
I H L	P 2 5	2 5 C Z	E R 1	R 0	M 0 7		
PRODUCT FAN	ЛILY	SIZE	PACKAGE IN CODE	NDUCTANCE T VALUE	OL. SERIES		
Revision: 16-Jun-16		1		Docu	iment Number: 34168		

Revision: 16-Jun-16

For technical questions, contact: magnetics@vishay.com

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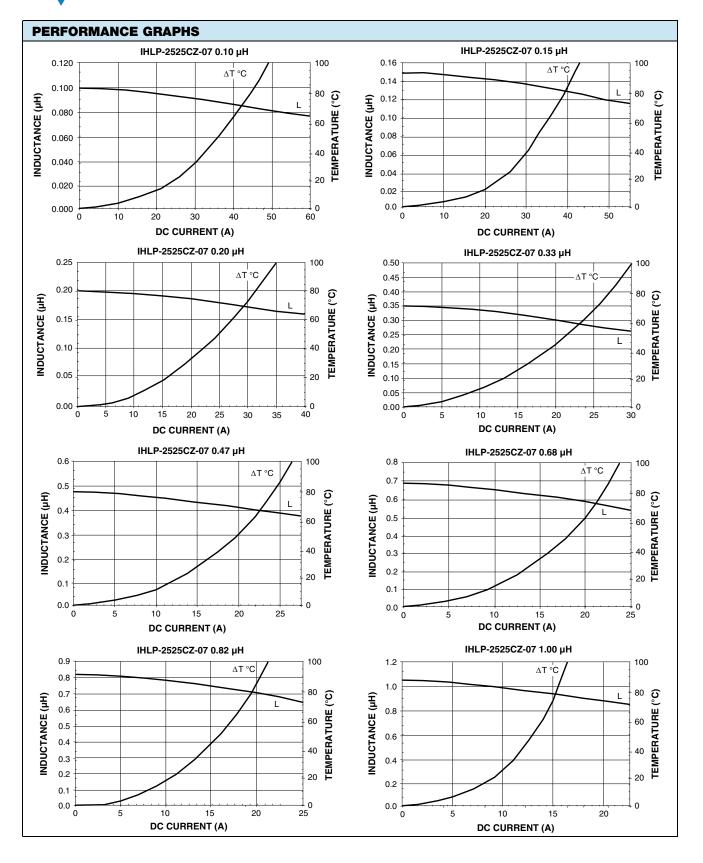


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Revision: 16-Jun-16

2

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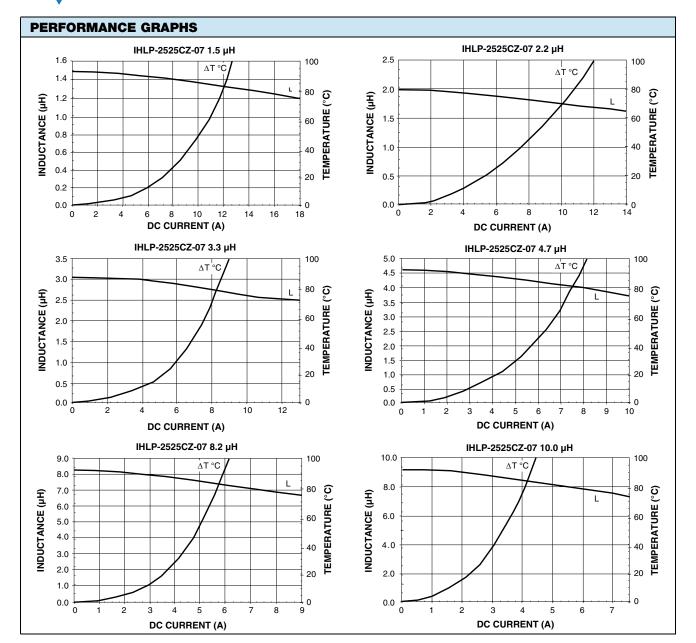
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