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Vishay Dale

IHLP[®] Commercial Inductors, High Saturation Series



LINKS TO ADDITIONAL RESOURCES

	2 (1)							
3D Models	Design Tools							

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) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) ⁽²⁾
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

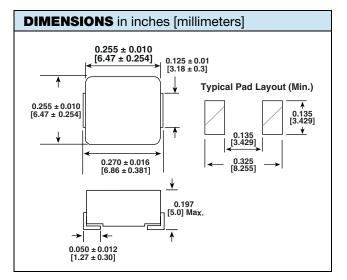
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- (1)
- Rated operating voltage (across inductor) = 75 V DC current (A) that will cause an approximate ΔT of 40 °C DC current (A) that will cause L₀ to drop approximately 20 % (2)

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
- IHLP design; PATENT(S): <u>www.vishav.com/patents</u>
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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)



DESCRIPTION	1														
IHLP-2525EZ-01	1.	.0 µH		± 20 %			ER			e3					
MODEL	INDUCTA	ANCE VAI	LUE	INDUCTANCE TOLERANCE				PACKAGE CODE			JEDEC [®] LEAD (Pb)-FREE STANDARD				
GLOBAL PART NUMBER															
I H L	Р	2	5	2	5	Ε	Ζ	Ε	R	1	R	0	М	0	1
PRODUCT FAMILY SIZE				ı	PACKAGE INDUCTANCE TOL. SEA					RIES					

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

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

Revision: 12-May-2020

Document Number: 34177

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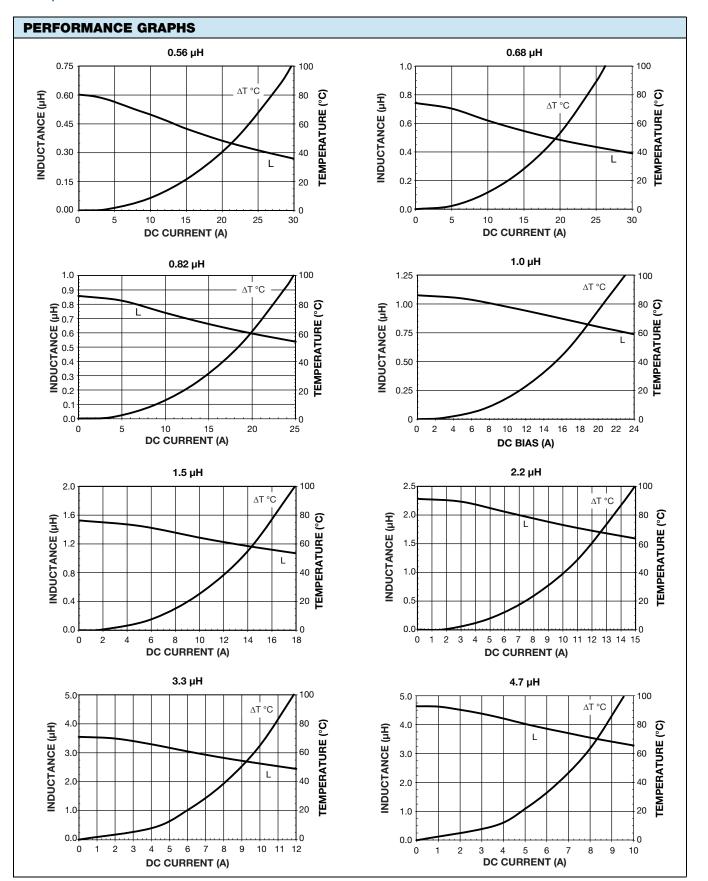
RoHS COMPLIANT HALOGEN

FREE

IHLP-2525EZ-01



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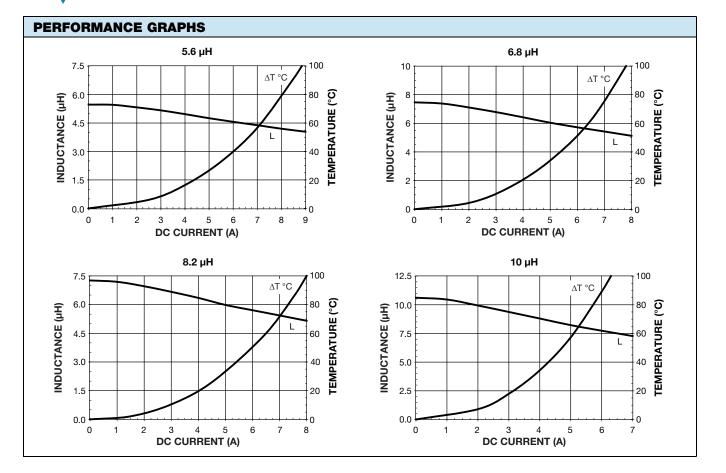
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