

Vishay Dale

IHLP[®] Automotive Inductors, High Temperature (155 °C) Series



DESIGN SUPPORT TOOLS click logo to get started



Design Tools Available

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⁾	SRF TYP. (MHz)				
0.33	3.25	3.48	22.0	16.0	112				
0.47	3.87	4.14	20.0	14.0	82.4				
0.68	5.38	5.76	16.5	17.0	56.1				
0.82	6.75	7.22	13.8	16.8	68.6				
1.0	7.90	8.45	12.0	13.0	53.2				
1.5	12.3	13.2	10.6	11.6	45.9				
2.2	17.10	18.30	8.1	10.8	31.2				
3.3	26.50	28.40	6.8	8.3	28.6				
4.7	35.90	38.40	5.6	5.6	25.5				
5.6	42.60	45.60	5.3	4.8	22.8				
6.8	53.80	57.60	4.4	4.4	19.6				
10	71.90	76.90	4.0	2.9	14.0				
15	118.0	127.0	2.9	2.8	10.4				
22	163.0	174.0	2.8	2.2	8.3				

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °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
- Rated operating voltage (across inductor) = 75 V
- $^{(1)}$ DC current (A) that will cause an approximate ΔT of 40 $^{\circ}C$
- DC current (A) that will cause L_0 to drop approximately 20 % (2)

FEATURES

- High temperature, up to 155 °C
- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up the SRF (see Standard Electrical Specifications table).



RoHS

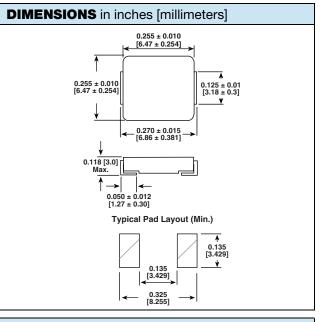
FREE

(5-2008)

- COMPLIANT Handles high transient current spikes without HALOGEN saturation **GREEN**
- Ultra low buzz noise, due to composite construction
- AEC-Q200 qualified
- IHLP design. PATENT(S): <u>www.vishav.com/patents</u>
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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 blower / **HID** lighting
- LED drivers



DESCRIPTION									
IHLP-2525CZ-5A	22 µH	± 20 %	ER	e3					
MODEL	INDUCTANCE VALUE	UCTANCE VALUE INDUCTANCE TOLERANCE		JEDEC [®] LEAD (Pb)-FREE STANDARD					
GLOBAL PART NUMBER									
I H L	P 2 5	2 5 C Z	E R 2	2 0 M	5 A				
MODEL	I L	SIZE	PACKAGE IN		L. SERIES				

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

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

Revision: 19-Dec-2018

Document Number: 34335

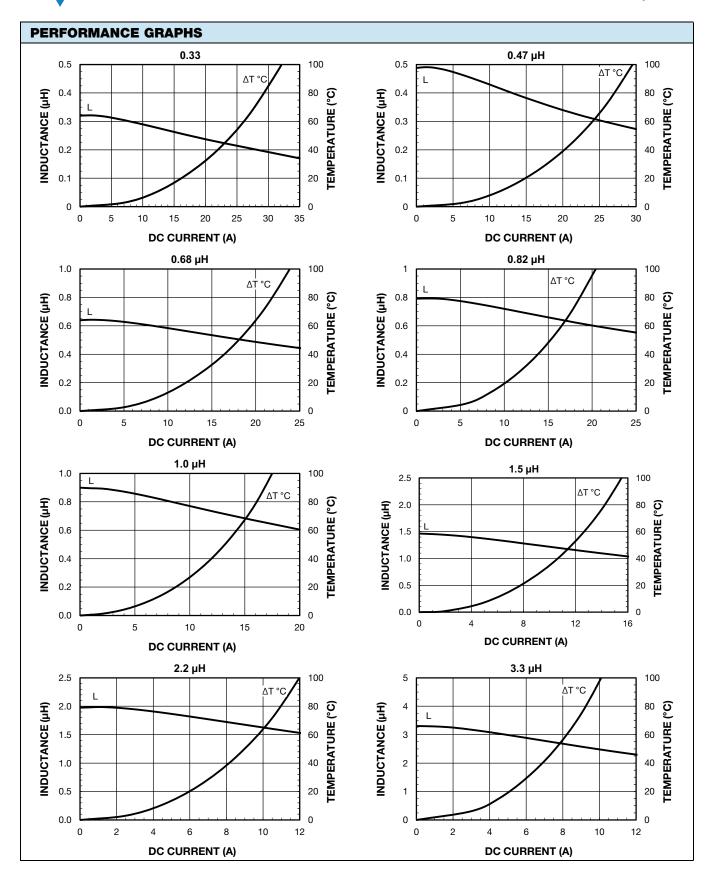
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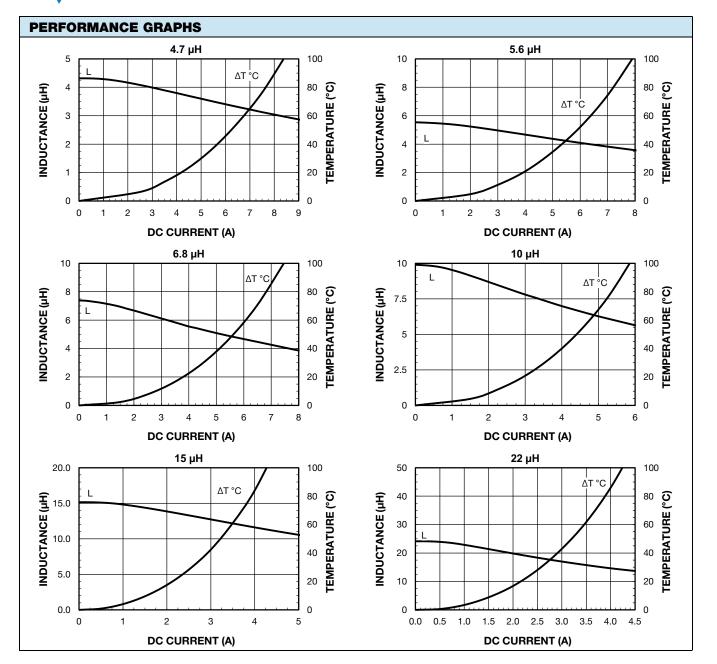
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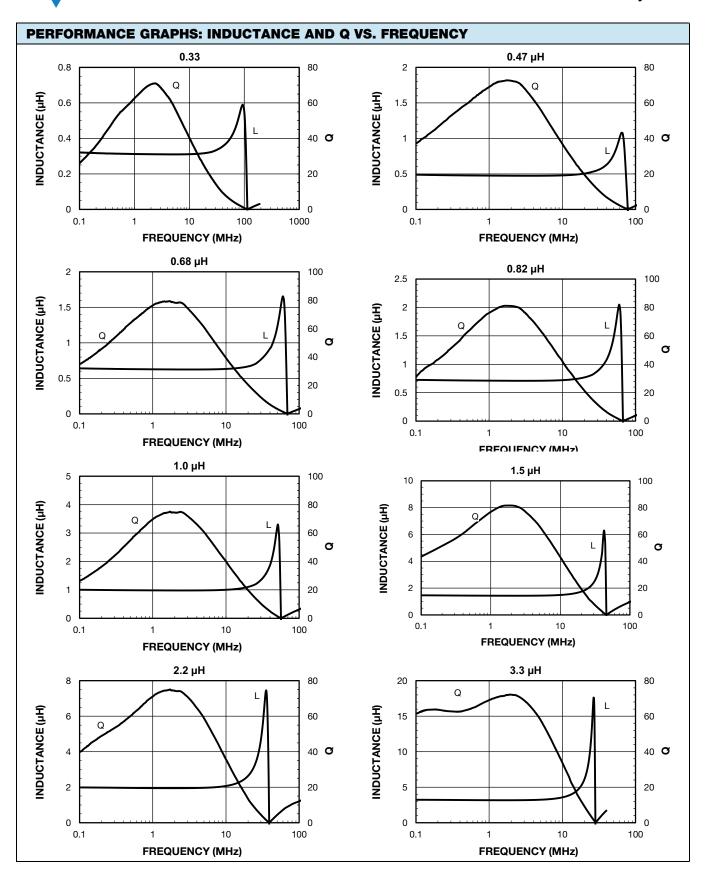


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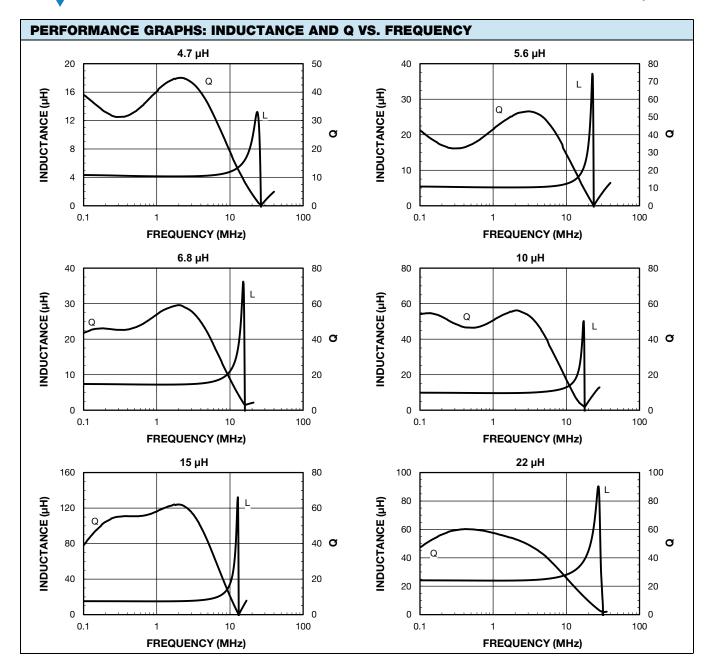
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5



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