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RoHS

COMPLIANT HALOGEN

FREE

GREEN

<u>(5-2008)</u>

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⁾	SRF TYP. (MHz)				
0.47	1.55	1.66	30.0	28.5	72.1				
1.0	2.87	3.07	23.5	24.0	37.2				
1.5	4.2	4.5	22.0	17.9	32				
2.2	8.15	8.76	15	12	30.1				
3.3	11.0	11.81	11.0	12.0	25.5				
4.7	14.3	15.32	9.8	9.2	20.1				
5.6	16.5	17.60	9.3	9.0	16.3				
6.8	20.9	22.36	8.0	9.0	16.3				
10	30.9	33.06	6.5	8.5	11.5				
15	47.0	50.29	5.1	7.7	10.4				
22	70.5	75.44	4.1	6.4	8.30				
33	110	117.70	3.7	4.2	5.79				
47	167	178	2.5	4.5	5.22				
68	240	252	2.4	3.5	4.02				

Notes

DESCRIPTION

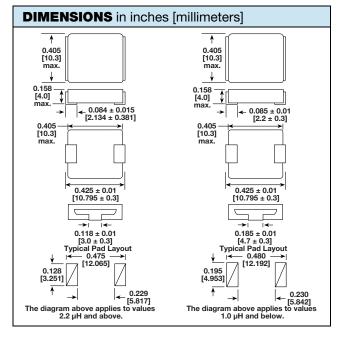
- (1) All test data is referenced to 25 °C ambient
- ⁽²⁾ Operating temperature range -55 °C to +180 °C
- ⁽³⁾ DC current (A) that will cause an approximate ΔT of 40 °C
- ⁽⁴⁾ DC current (A) that will cause L_0 to drop approximately 20 % (5) The part temperature (ambient + temp. rise) should not exceed
- 180 °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.
- (6) Maximum recommended operating voltage (across inductor) = 200 V

FEATURES

- High temperature, up to 180 °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).
- Lowest DCR/µH, in this package size · Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- AEC-Q200 gualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- · Engine and transmission control units
- Diesel injection drivers
- Noise suppression for motors
 - Windshield wipers
 - Power seats
 - Power mirrors
 - Heating and ventilation blowers
- HID lighting
- LED drivers



	-												
IHLP-4040DZ-8A	4.7	7μΗ	± 20 %		ER		e3						
MODEL	INDUCTAN	NCE VALUE	INDUCTANCE TOLERANCE		PACKAGE CODE		JEDEC [®] LEAD (Pb)-FRI			EE STAN	IDARD		
GLOBAL PAR	T NUMBE	ER											
I H L	Ρ	4 0	4 0	D	z	Ε	R	4	R	7	м	8	Α
PRODUCT FAN	PRODUCT FAMILY		SIZE		PACKAGE IN CODE		IDUCTANCE VALUE		TOL.	SER	IES		
Revision: 03-Jan-17					1					Do	ocument	Number	: 34363

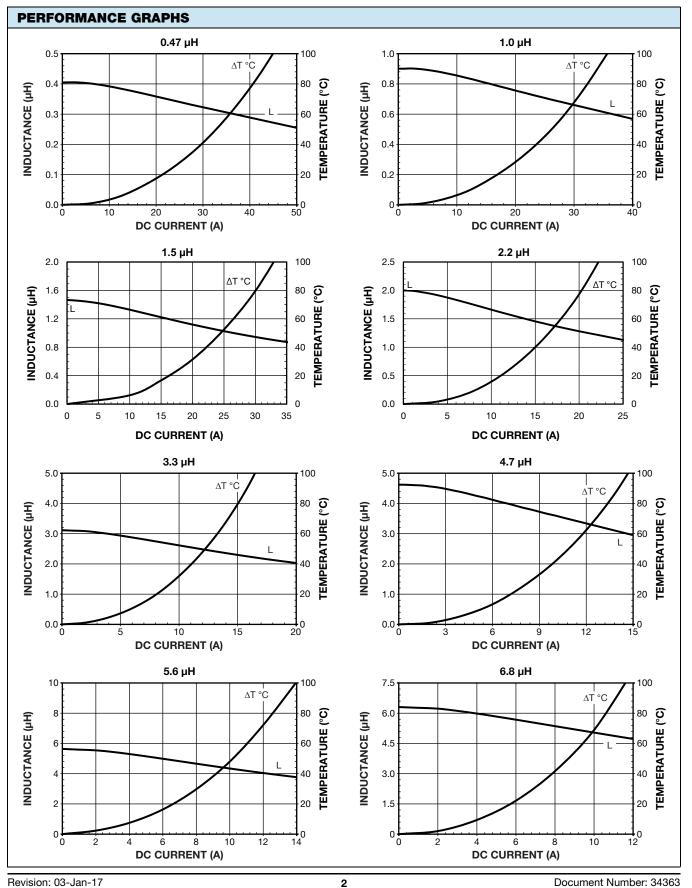
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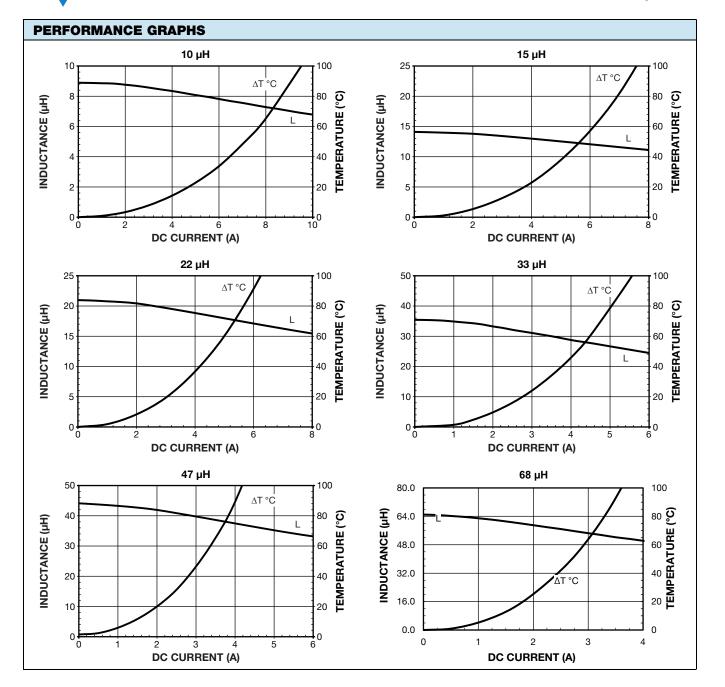
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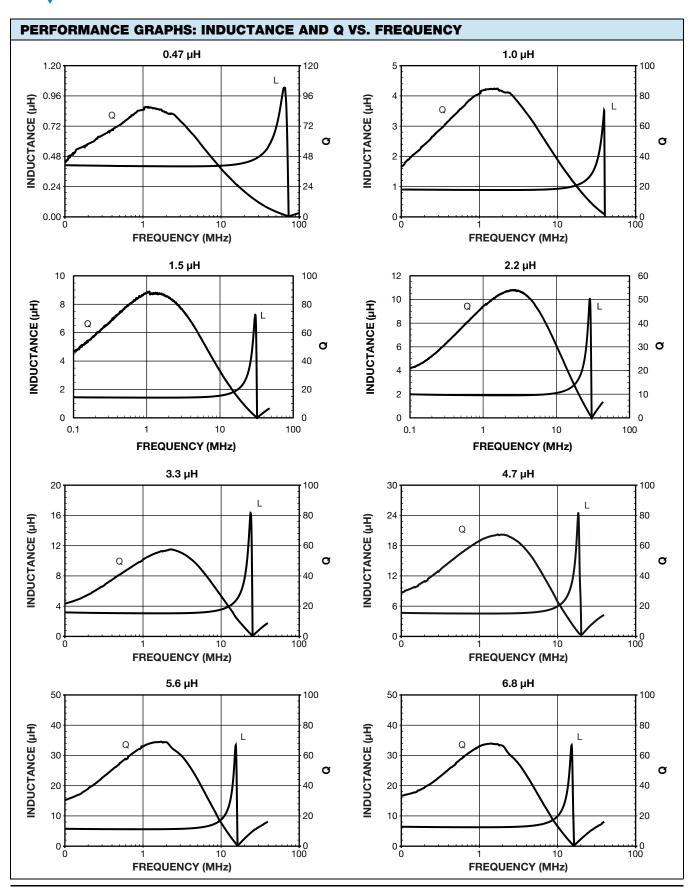
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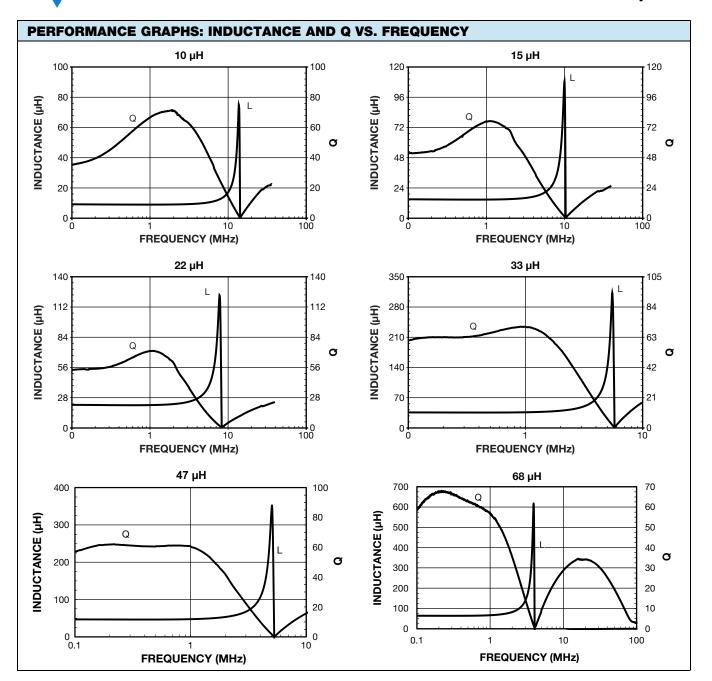
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