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Vishay Dale

IHLP® Commercial Inductors, High Temperature (155 °C) Series



DESIGN SUPPORT TOOLS

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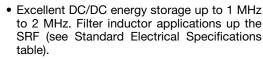
STANDARD ELECTRICAL SPECIFICATIONS										
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) (1)	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)					
0.47	1.55	1.66	30.0	28.5	72.1					
1.0	2.87	3.07	23.5	24.0	37.2					
1.5	4.2	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	3.1	4.1	5.22					
68	240	252	2.4	3.5	4.02					

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
- DC current (A) that will cause an approximate ΔT of 40 °C
- (2) DC current (A) that will cause L₀ to drop approximately 20 %

FEATURES

- High temperature, up to 155 °C
- Shielded construction



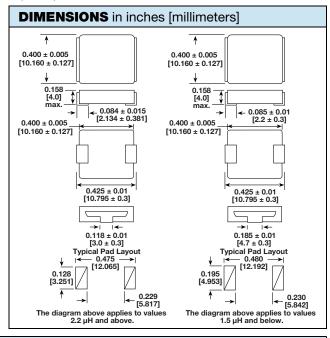


(5-2008)

- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design. PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.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)

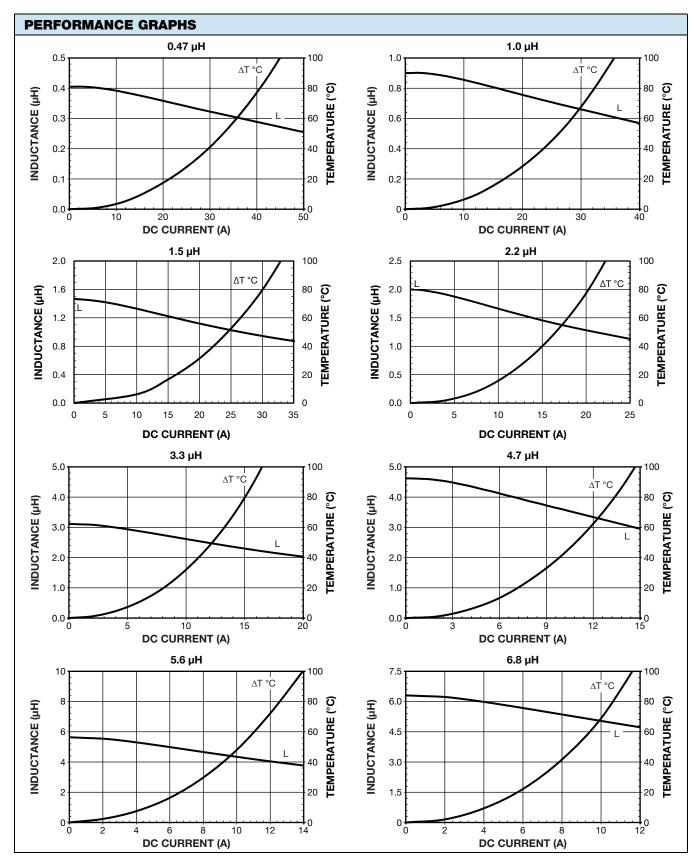


DESCRIPTION	l							
IHLP-4040DZ-51	4.7 μH	± 20 %		ER		e3		
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLER	RANCE	PACKAGE CC	DE JEDEC® LEA	O (Pb)-FRI	EE STANDARD	
GLOBAL PAR	T NUMBER							
I H L	P 4 0	4 0 D	Z	E R	4 R 7	М	5 1	
PRODUCT FAM	MILY	SIZE		PACKAGE CODE	INDUCTANCE VALUE	TOL.	SERIES	

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

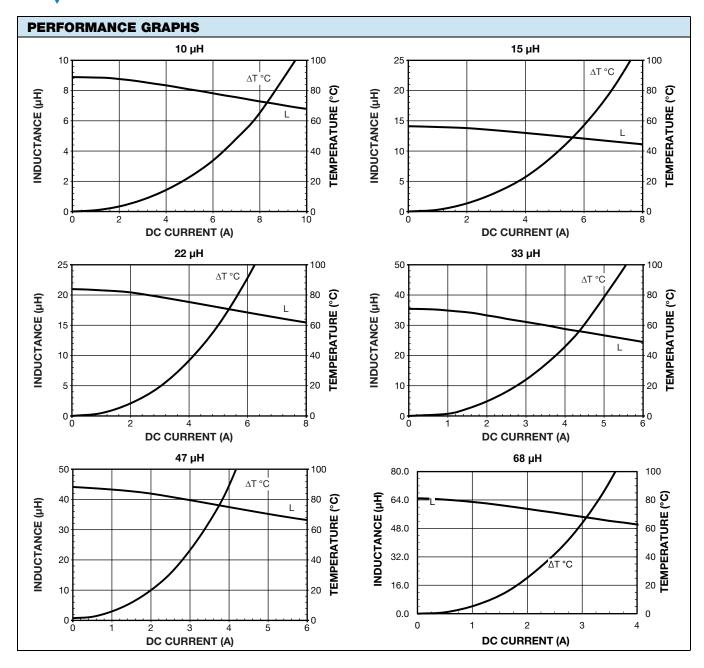
This Vishay product is protected by one or more United States and international patents.



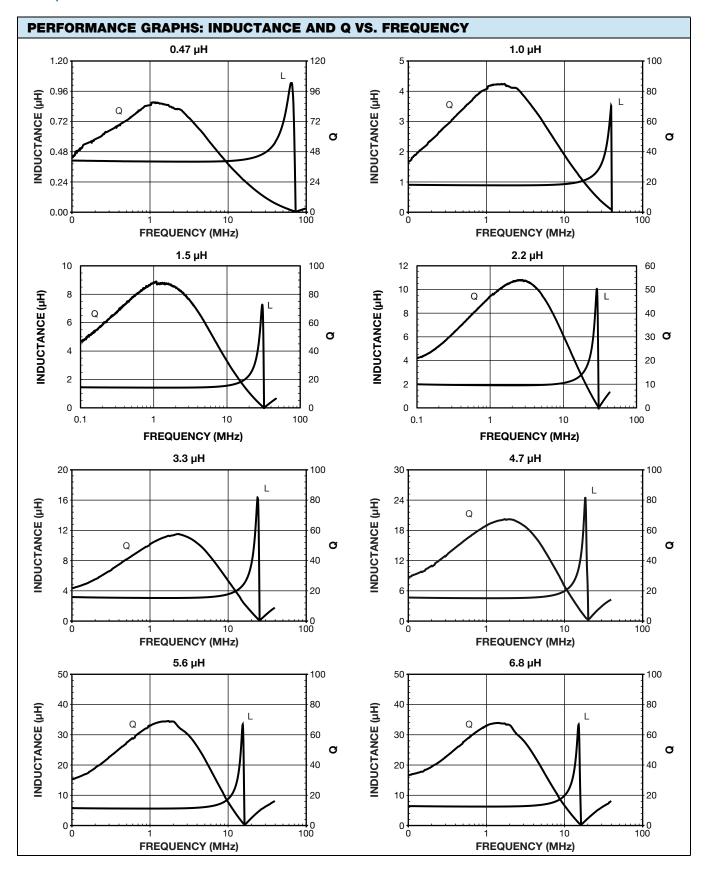




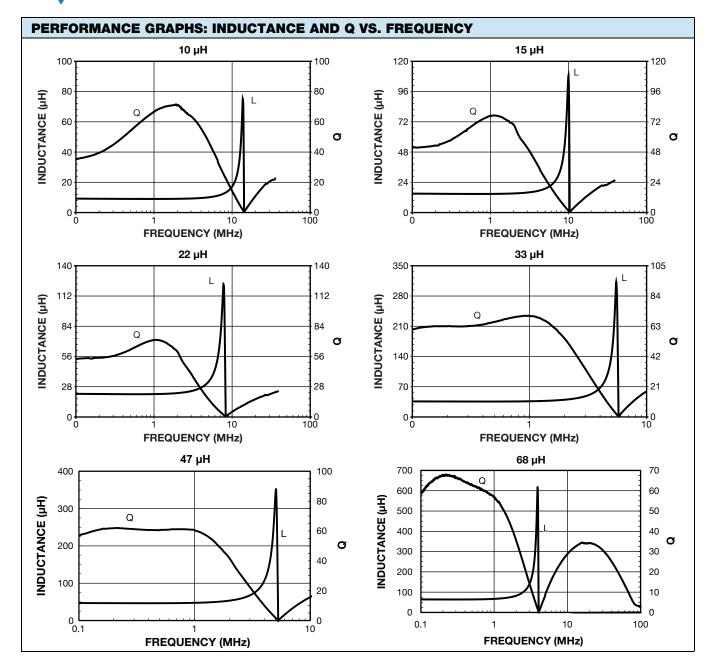
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