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Vishay Dale

IHLP® Commercial Inductors, High Saturation Series



LINKS TO ADDITIONAL RESOURCES





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)		
0.19	0.875	0.95	40.0	90.0		
0.36	1.30	1.40	31.5	60.0		
0.56	1.80	1.95	27.5	49.0		
1.0	3.70	4.10	17.5	36.0		
1.5	5.30	5.80	15.0	27.5		
2.2	8.20	9.00	12.0	25.6		
3.3	13.70	14.40	10.0	18.6		
4.7	15.00	16.50	9.5	17.0		
5.6	17.60	19.30	8.5	16.0		
6.8	21.20	23.30	8.0	13.5		
10	33.20	36.50	6.8	12.0		
22	74.3	79.90	4.6	10.0		

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
- Rated operating voltage (across inductor) = 75 V
- (1) 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

- 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.vishav.com/doc?99912

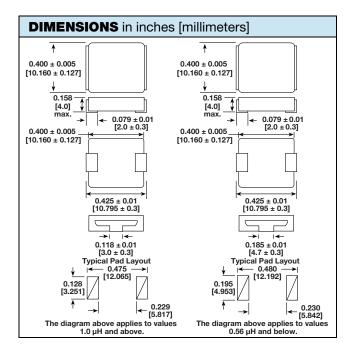
Pb-free

ROHS

FREE
GREEN
(5-2008)

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)





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DESCRIPTION						
IHLP-4040DZ-01	6.8 µH	± 20 %	EK	e3		
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD		

GLOBAL PART NUME	3ER		
PRODUCT FAMILY	4 0 4 0 D Z SIZE	PACKAGE INDUCTANCE TOL. SERIE CODE VALUE	1 ES

PACKAGE CODE OPTIONS

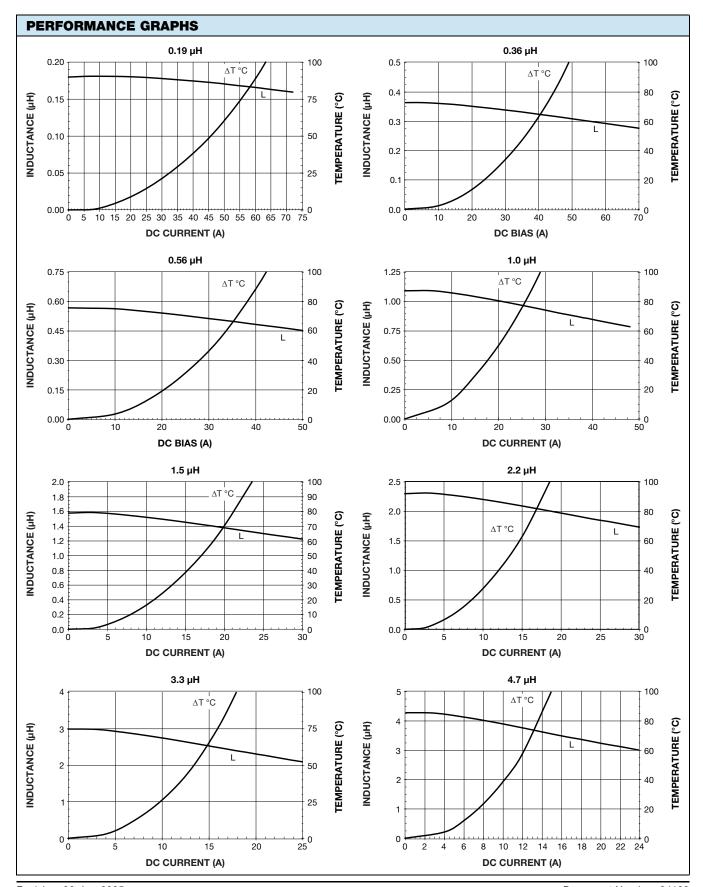
ER = tape and reel packaging (500 piece reel)

EK = tape and reel packaging (1000 piece reel)

Notes

- For additional packaging details see "Packaging Methods"
- 1000 piece reel for IHLP4040DZ models contains tape pitch change

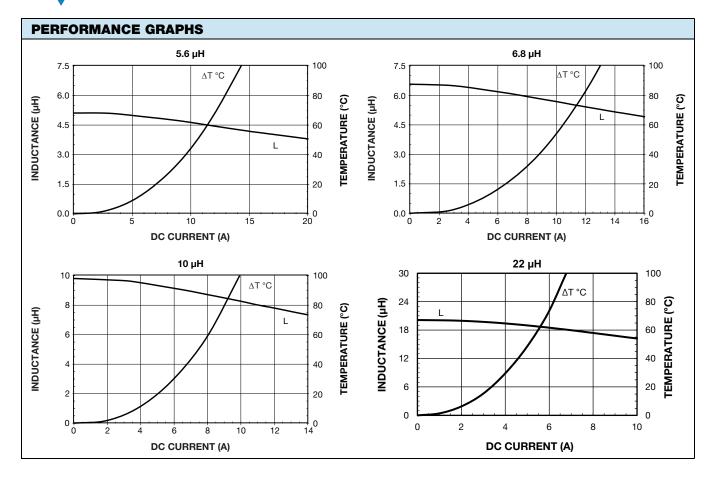






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