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Vishay Dale

AUTOMOTIVE

RoHS

COMPLIANT

HALOGEN FREE

GREEN

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

IHLP® Automotive Inductors, High Temperature (180 °C) 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⁾	SRF TYP. (MHz)		
0.47	0.89	0.95	65.0	76.0	52.3		
1.0	1.36	1.46	53.0	42.0	35.5		
2.2	2.25	2.41	38.5	38.0	19.8		
3.3	3.06	3.27	32.2	32.0	16.5		
4.7	4.89	5.23	24.0	26.0	14.0		
8.2	8.6	9.23	17.5	14.5	9.40		
10.0	10.20	10.91	16.0	13.0	7.70		
15.0	15.85	16.96	12.5	13.0	8.55		
22.0	21.28	22.27	11.7	11.0	5.97		
33.0	36.2	38.9	8.8	9.4	4.43		
47.0	52.7	56.4	7.25	7.0	3.72		

Notes

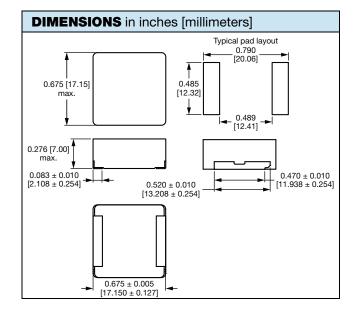
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +180 °C
- The part temperature (ambient + temp. rise) should not exceed 180 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- 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

- 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 up to 10 times the current rating, depending on the duration
- Ultra low buzz noise, due to composite construction
- AEC-Q200 qualified
- IHLP design; PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see <u>www.vishav.com/doc?99912</u>

APPLICATIONS

- Brushless DC motor for auto EGR (exhaust gas recycle) pump
- ADAS (advanced driver-assistance systems)
- Body electronics
 - LED lighting
 - Infotainment / driver information
 - Mirror / window / door soft close control
- EMI filter up to 180 °C
- Storage inductors for GaN switched-mode power supply applications



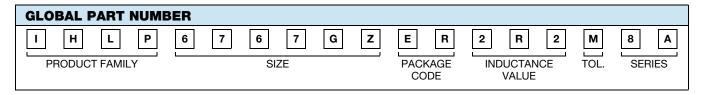
PATENT(S): www.vishay.com/patents

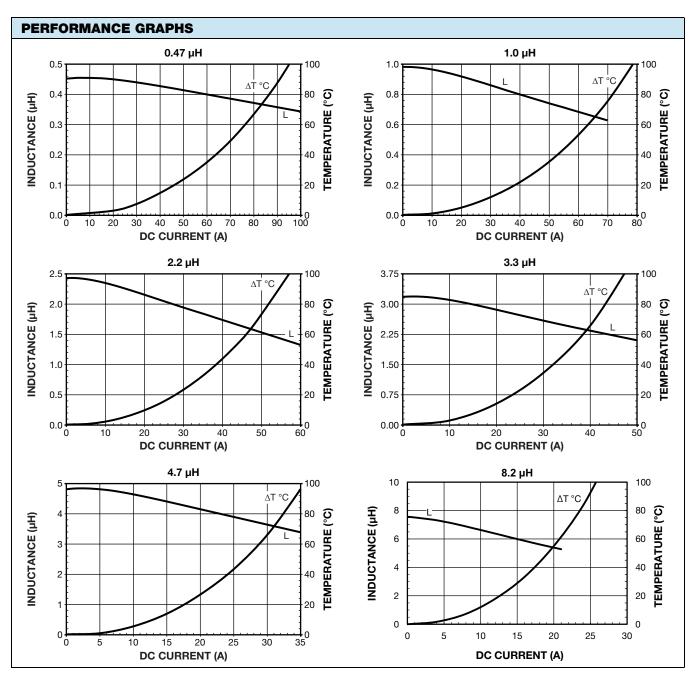
This Vishay product is protected by one or more United States and international patents.



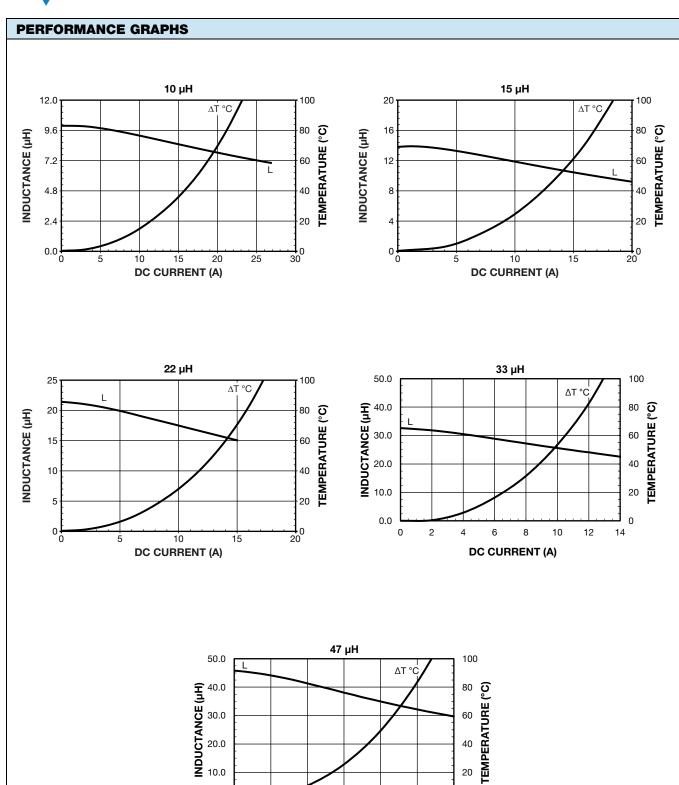
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DESCRIPTION							
IHLP-6767GZ-8A	2.2 μΗ	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			









DC CURRENT (A)

0.0

2

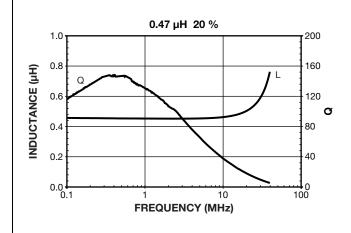
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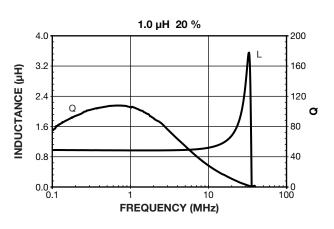
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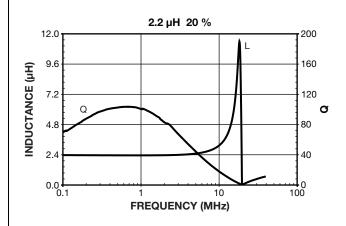
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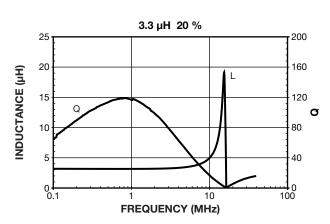


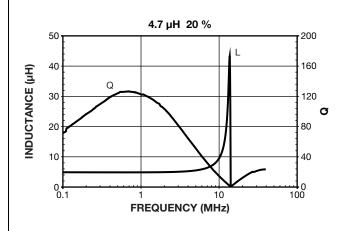


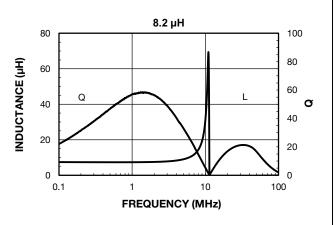




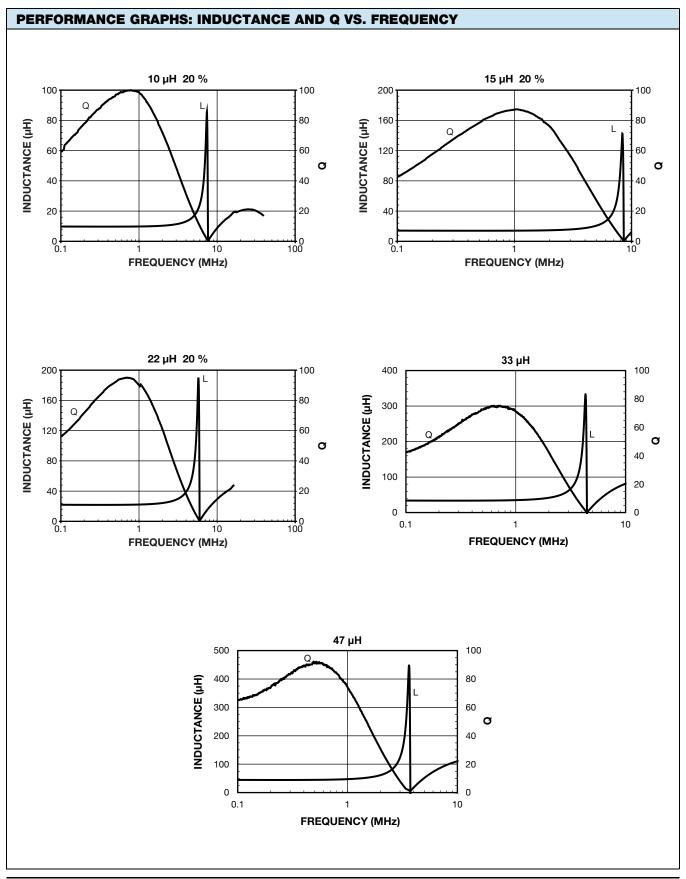














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