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IHLP[®] Commercial Inductors, High Saturation Series



ADDITIONAL RESOURCES



Design Tools

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⁾								
0.22	0.63	0.75	80	129								
0.33	0.71	0.82	65	126								
0.47	0.90	1.03	62	123								
0.56	0.91	1.05	56	88								
0.82	1.17	1.29	50	73								
1.0	1.28	1.38	48	73								
1.5	1.78	1.88	42	65								
1.8	1.96	2.10	38	65								
2.2	2.40	2.53	35	62								
3.3	3.68	3.88	28	54								
4.7	4.84	5.11	25	41								
5.6	6.68	7.05	21	40								
6.8	8.37	8.83	19	32								
8.2	10.10	10.66	18	25								
10.0	11.6	12.0	16.5	25								
15.0	18.8	19.9	12.5	25								
22.0	25.1	26.5	11	23								

Notes

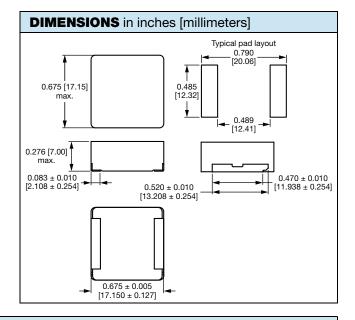
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions 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 L_0 to drop approximately 20 %

FEATURES

- Shielded construction
- Frequency range up to 2.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
 FREE
- Saturation and inductance extremely stable over temperature
- Ultra low buzz noise, due to composite construction
- IHLP design. PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- Desktop / server applications
- · High current buck and boost converters
- · Low profile, high current power supplies
- DC/DC converters in distributed power systems
- High current noise filter



DESCRIPTION										
IHLP-6767GZ-01	4.7 μH		± 20 %		ER		e3			
MODEL	INDUCTANCE	VALUE	INDUCTANCE TOLERANCE		PACKAGE CODE		JEDEC [®] LEAD (Pb)-FREE STANDARD			
GLOBAL PART	NUMBER									
I H L	P 6	7	6 7	GZ	ER	4	R	7 M	0 1	
PRODUCT FAM			SIZE		PACKAGE CODE	IN	DUCTANCE VALUE	TOL.	SERIES	
PATENT(S): www.										
This Vishay product is protected by one or more United States and international patents.										

Revision: 28-Jan-2020

Document Number: 34000

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Pb-free RoHS COMPLIANT HALOGEN

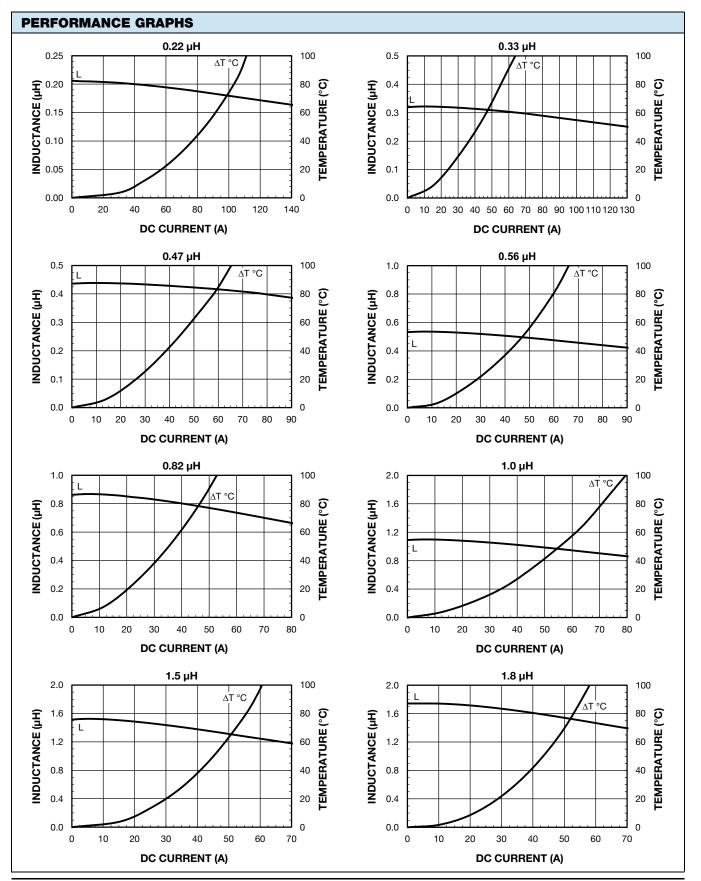
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For technical questions, contact: <u>magnetics@vishay.com</u>



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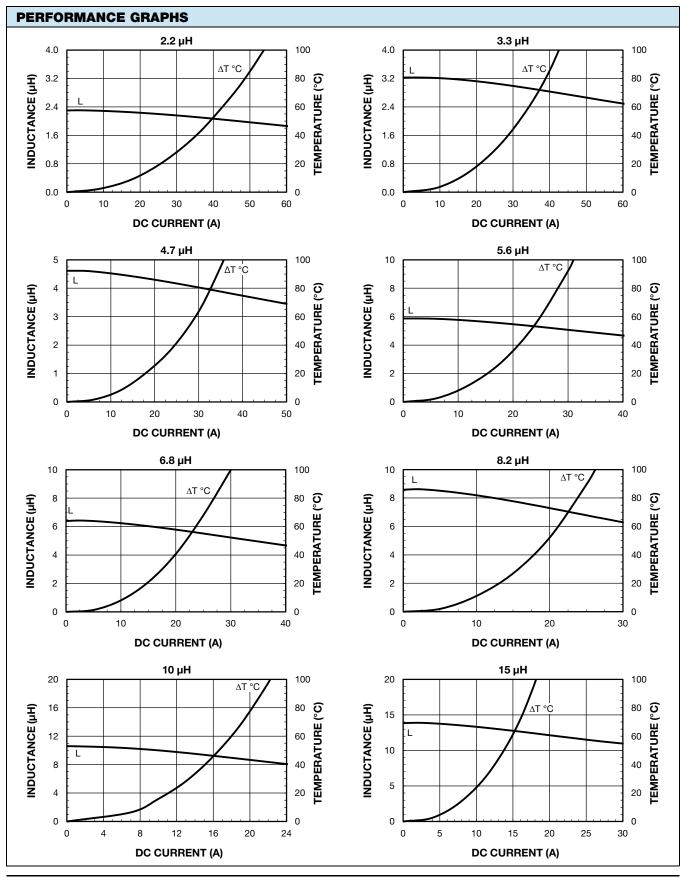
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2 For technical questions, contact: <u>magnetics@vishay.com</u> Document Number: 34000

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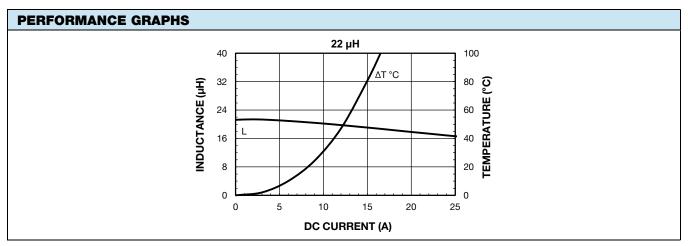
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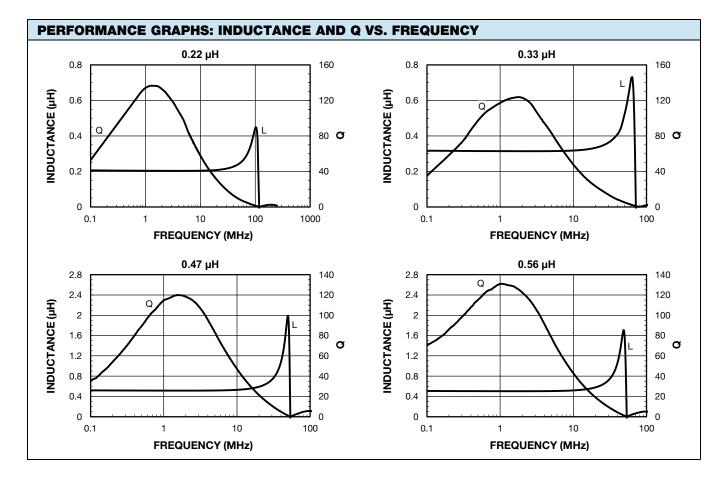
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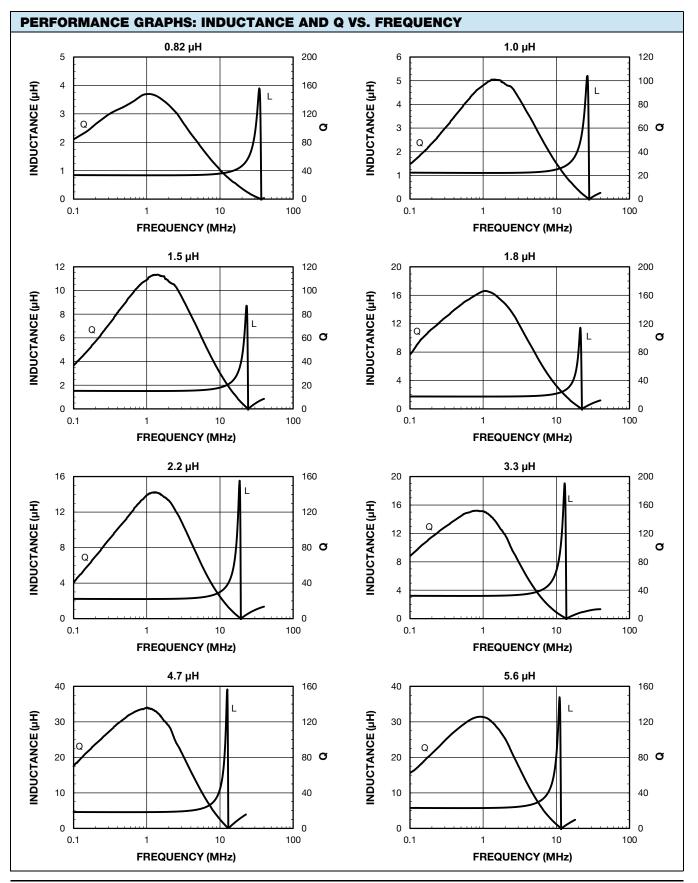




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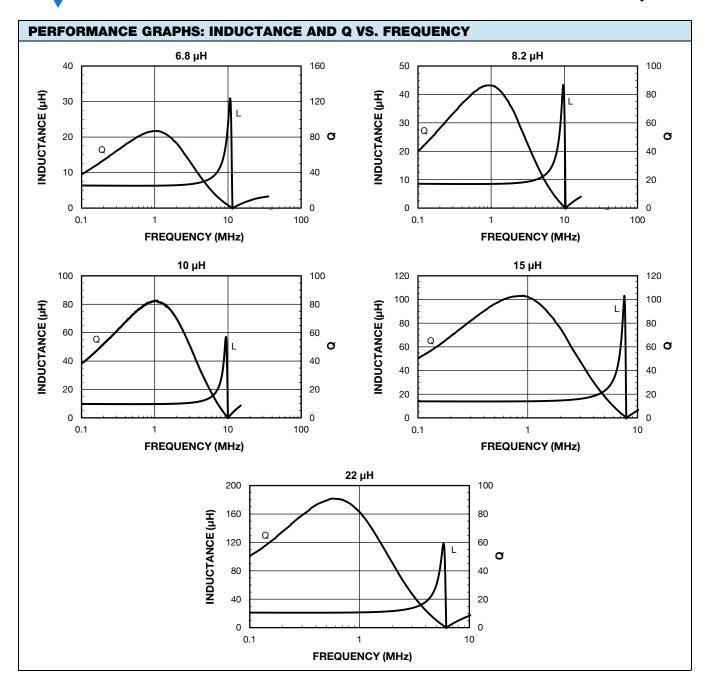
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