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RoHS

COMPLIANT

HALOGEN FREE

GREEN

(5-2008)

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⁾		
0.22	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

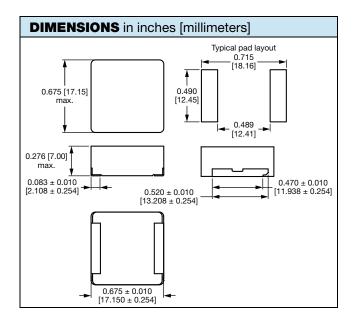
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions 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
- Saturation and inductance extremely stable over temperature
- Ultra low buzz noise, due to composite construction
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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



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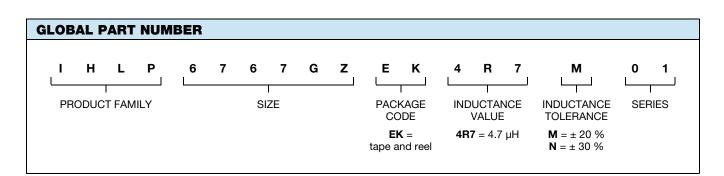
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IHLP-6767GZ-01

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DESCRIPTION

IHLP-6767GZ-01	4.7 µH	± 20 %	EK	e3		
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD		



PACKAGE CODE OPTIONS

EK = tape and reel packaging (250 pcs on 13-inch reel)

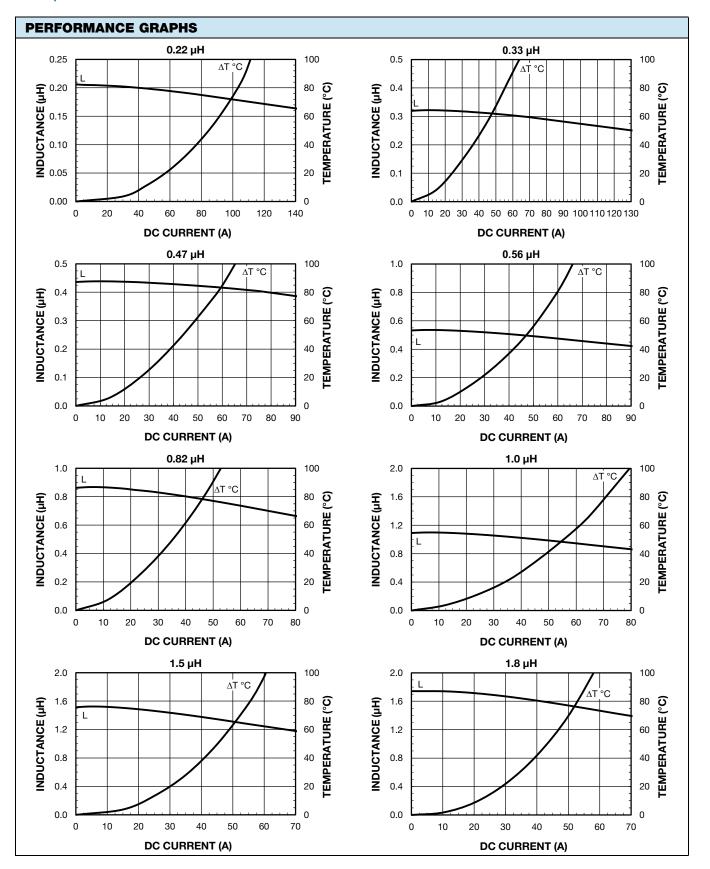
ER = tape and reel packaging (200 pcs on 13-inch reel)

Note

For additional packaging details see "<u>Packaging Methods</u>"



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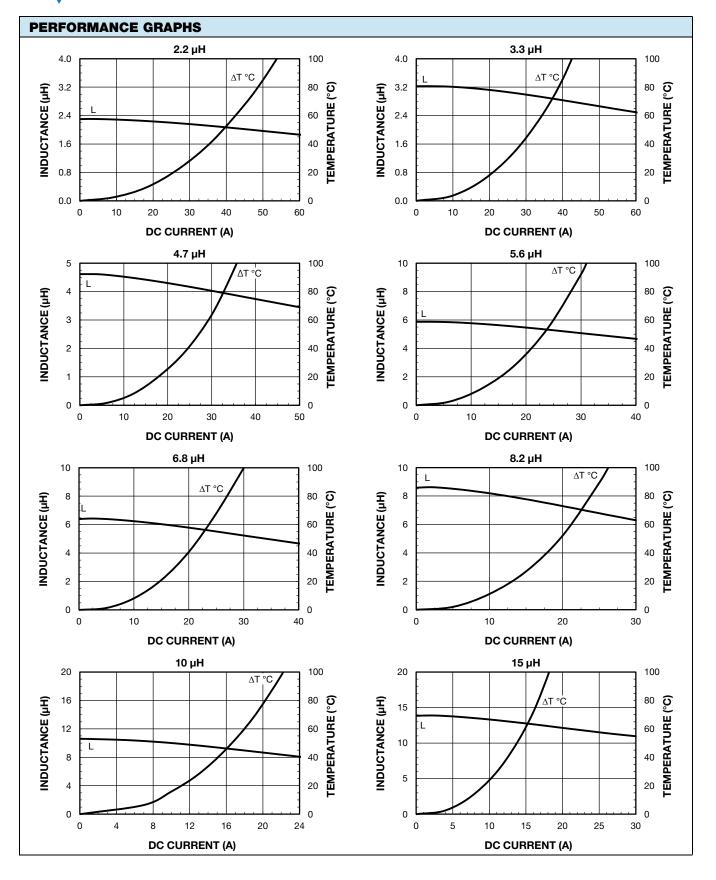
Revision: 22-Apr-2025

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

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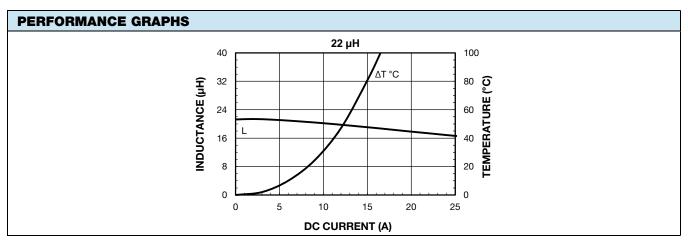
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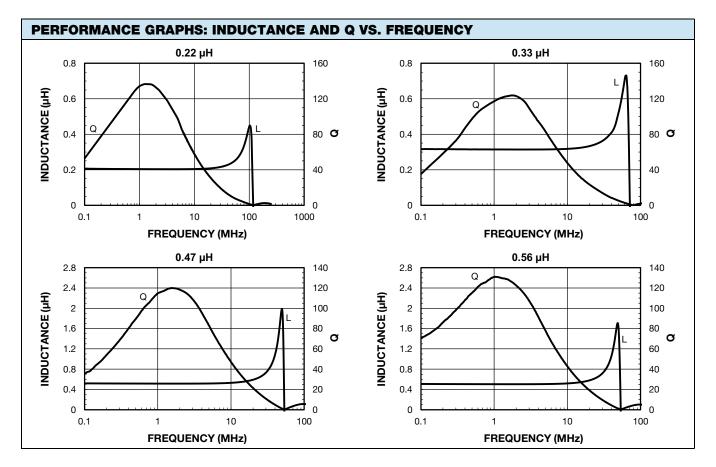
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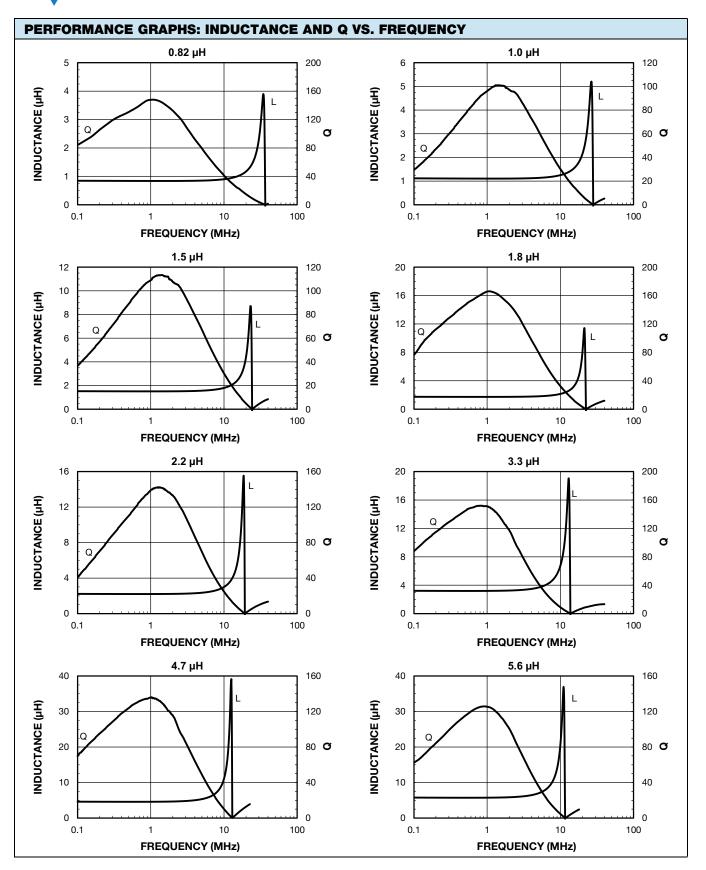




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IHLP-6767GZ-01

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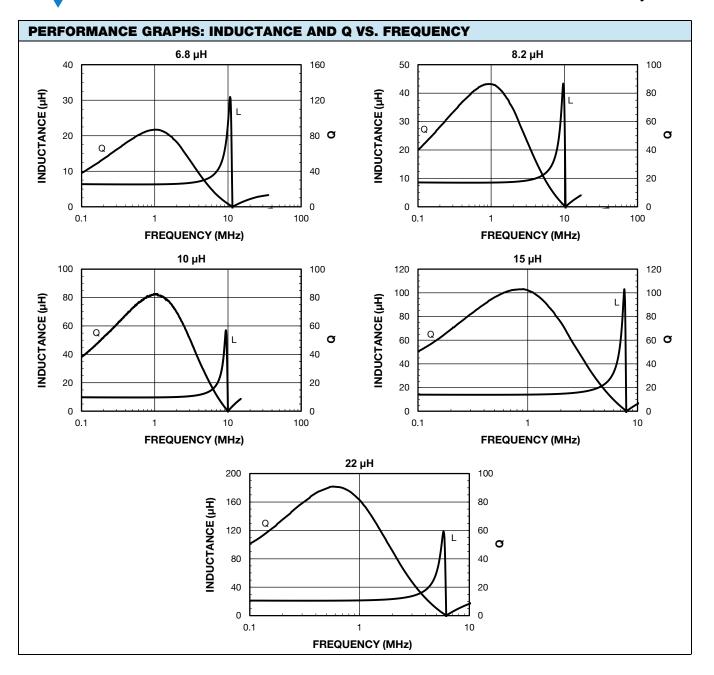
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