

Vishay Dale

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



LINKS TO ADDITIONAL RESOURCES



Design Too

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		
1.5	1.72	1.85	40.5	40.0	24.0		
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		
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

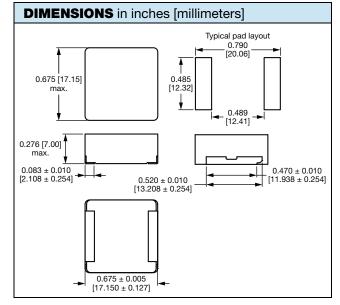
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Rated operating voltage (across inductor) = 75 V
- $^{(1)}\,$ DC current (A) that will cause an approximate ΔT of 40 $^{\circ}C$
- ⁽²⁾ DC current (A) that will cause L_0 to drop approximately 20 %

FEATURES

- High temperature rating, up to 155 °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 without
 <u>GHEEN</u>
 <u>(5-2008)</u>
- Ultra low buzz noise, due to composite construction
- IHLP design; PATENT(S): <u>www.vishay.com/patents</u>
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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							
IHLP-6767GZ-51	2.2 µH	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD			
GLOBAL PART NUMBER							
ППГ	P 6 7	6 7 G Z	E R 2	R 2 M 5 1			
		SIZE		IDUCTANCE TOL. SERIES			
	ishay.com/natents						

PATENT(S): <u>www.vishay.com/patents</u> This Vishay product is protected by one or more United States and international patents.

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RoHS COMPLIANT HALOGEN

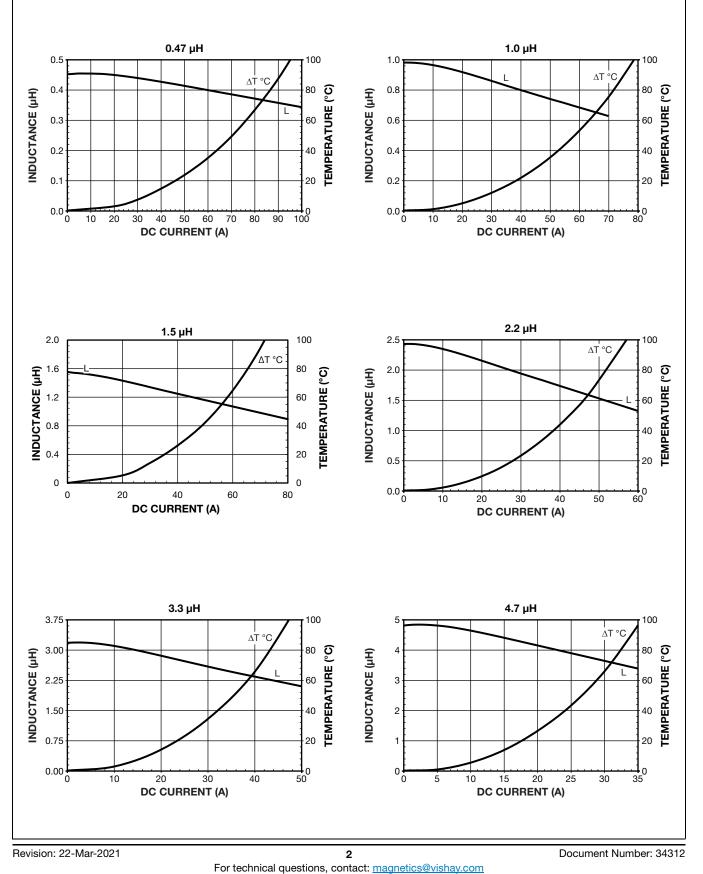
FREE GREEN

¹ chnical questions, contact: magnetics@visbav



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PERFORMANCE GRAPHS

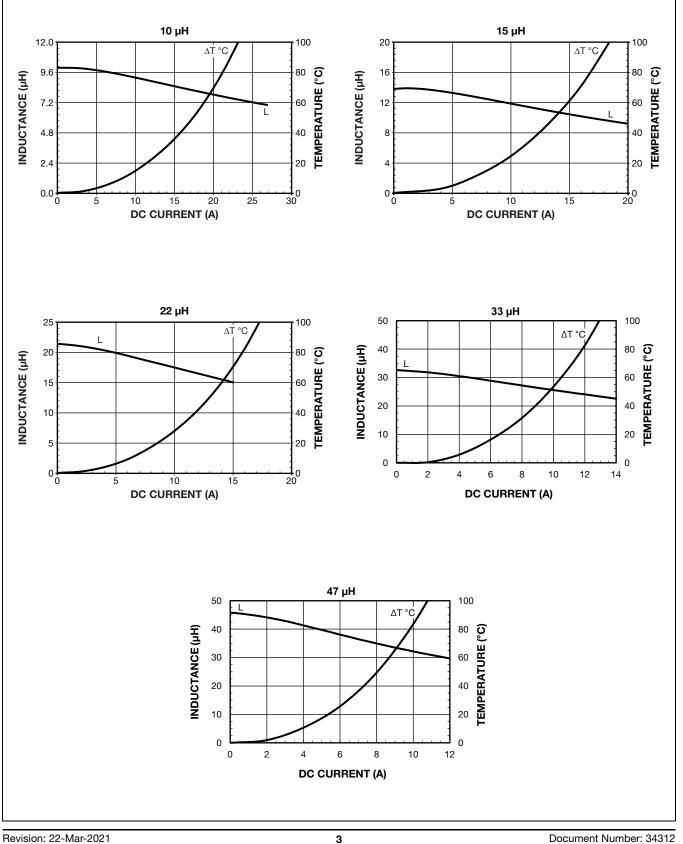


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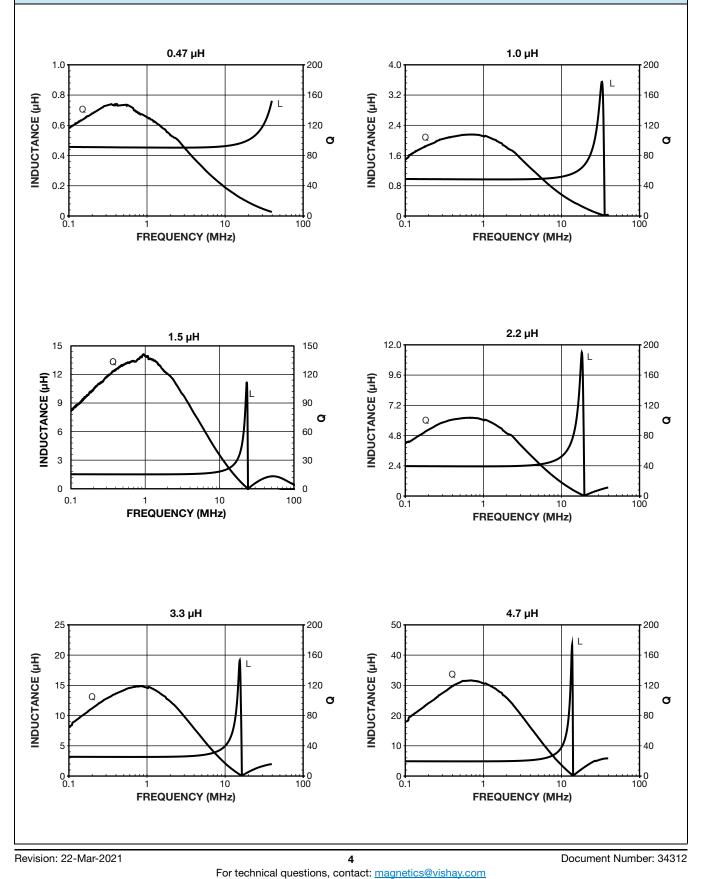
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PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY

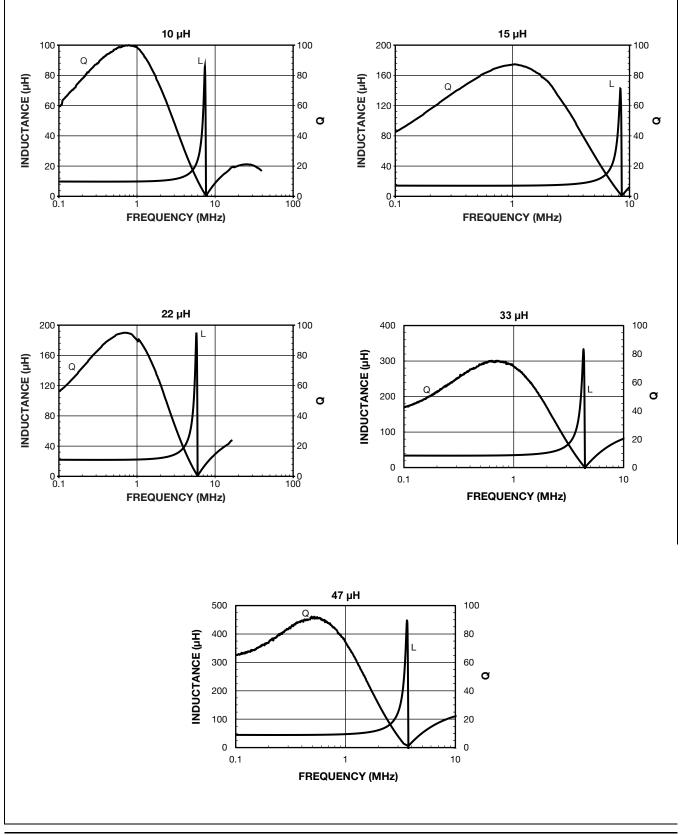


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