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Vishay Dale

RoHS

COMPLIANT

HALOGEN

GREEN

(5-2008)

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





LINKS TO ADDITIONAL RESOURCES





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)

FEATURES

- High temperature, up to 155 °C
- · Magnetically shielded construction
- Excellent DC/DC energy storage up to 2 MHz
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design; PATENT(S): www.vishay.com/patents
- Packaging information: SMD packaging
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS										
	L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A	DCR TYP. 25 °C	DCR MAX. 25 °C	HEAT RATING CURRENT DC TYP.	SATURATION CURRENT DC TYP. (A)		SRF TYP.			
PART NUMBER	(μH)	(m Ω)	(m Ω)	(A) ⁽¹⁾	20 % DROP (2)	30 % DROP (3)	(MHz)			
IHLP6767GZERR47M51	0.47	0.89	0.95	65	76	110	52.3			
IHLP6767GZER1R0M51	1	1.36	1.46	53	42	60	35.5			
IHLP6767GZER1R5M51	1.5	1.72	1.85	40.5	40	55	24			
IHLP6767GZER2R2M51	2.2	2.25	2.41	38.5	38	41	19.8			
IHLP6767GZER3R3M51	3.3	3.06	3.27	32.2	32	40	16.5			
IHLP6767GZER4R7M51	4.7	4.89	5.23	24	26	35	14			
IHLP6767GZER5R6M51	5.6	5.86	6.30	23	23	33	11.5			
IHLP6767GZER6R8M51	6.8	7.5	8.06	21	22	32	10.4			
IHLP6767GZER8R2M51	8.2	8.6	9.23	17.5	14.5	19	9.4			
IHLP6767GZER100M51	10	10.2	10.91	16	13	18.5	7.7			
IHLP6767GZER150M51	15	15.85	16.96	12.5	13	16	8.55			
IHLP6767GZER220M51	22	21.28	22.27	11.7	11	15	5.97			
IHLP6767GZER330M51	33	36.2	38.9	8.8	9.4	13.7	4.43			
IHLP6767GZER470M51	47	52.7	56.4	7.25	7	10.1	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 °C
- (2) DC current (A) that will cause L₀ to drop approximately 20 %
- (3) DC current (A) that will cause L₀ to drop approximately 30 %

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

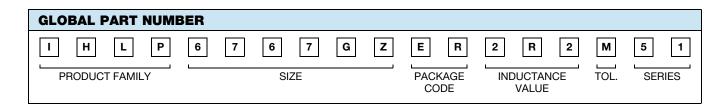
Revision: 23-Feb-2023

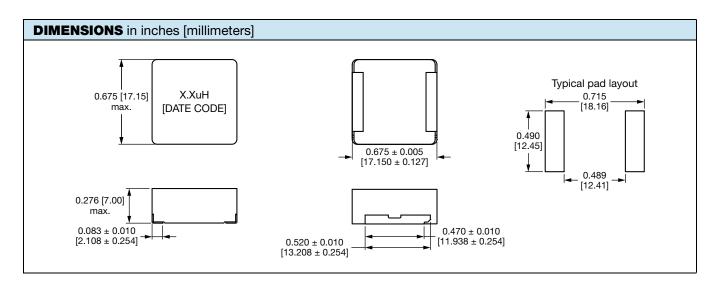
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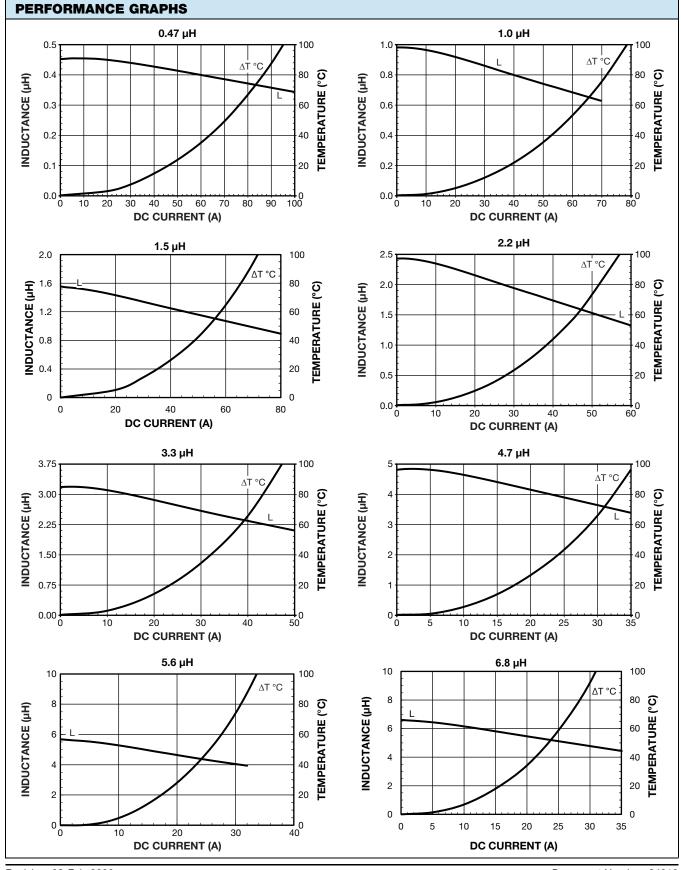
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DESCRIPTION									
IHLP-6767GZ-51	2.2 μΗ	± 20 %	TAPE AND REEL	e3					
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD					

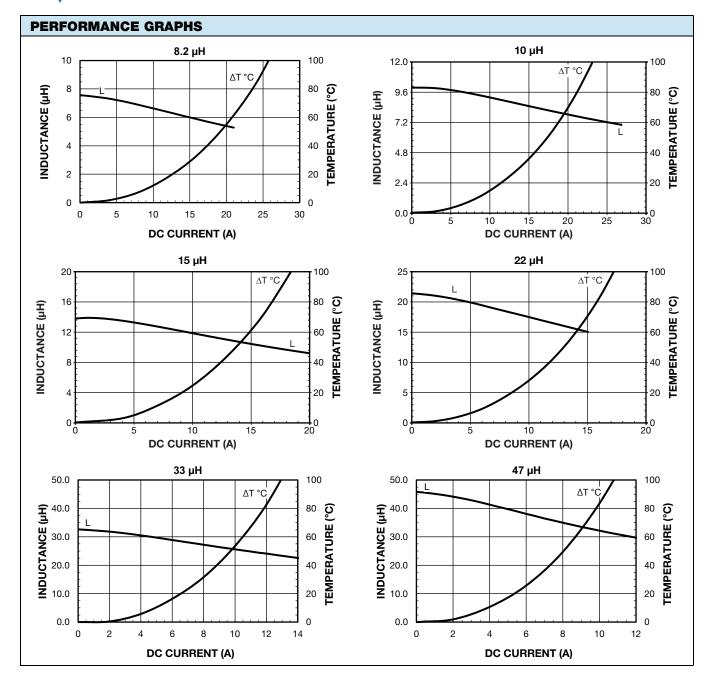




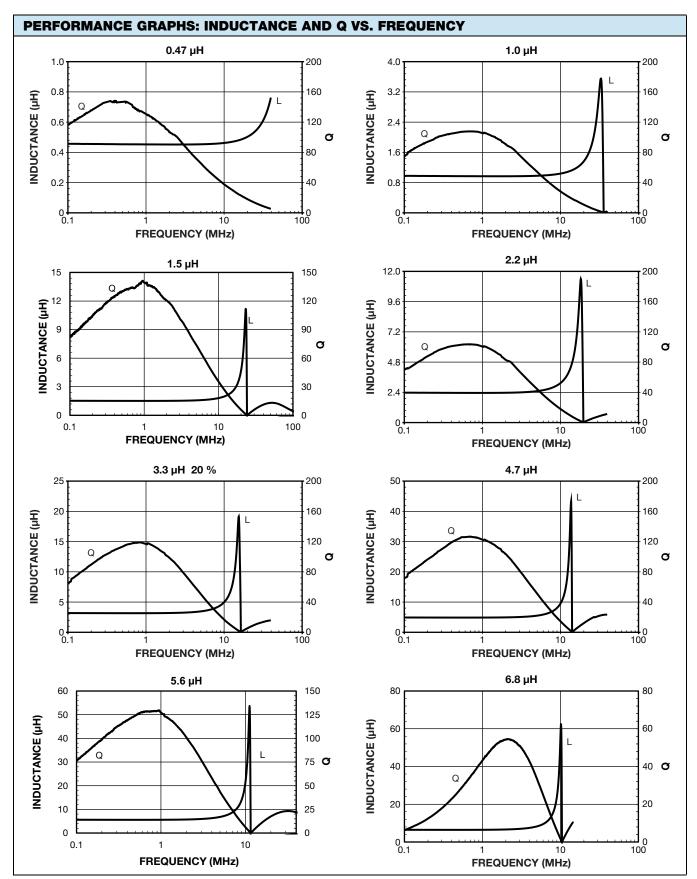


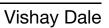




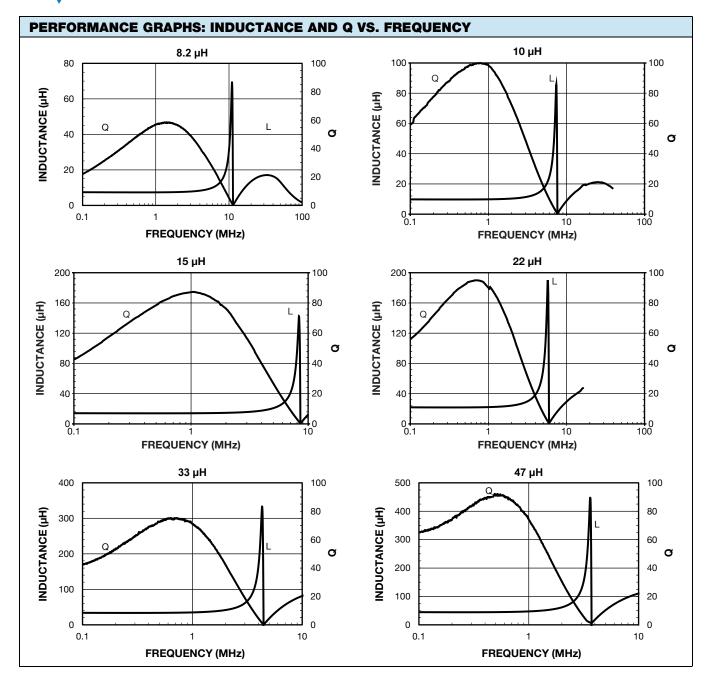














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