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Vishay Dale

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





LINKS TO ADDITIONAL RESOURCES





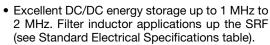
STANDADD ELECTRICAL SPECIFICATIONS						
STANDARD ELECTRICAL SPECIFICATIONS						
L ₀ INDUCTANCE ± 20 % AT 100 kHz,	DCR TYP.		HEAT RATING CURRENT	SATURATION CURRENT DC TYP.		SRF
0.25 V, 0 A (μH)	25 °C (mΩ)	25 °C (mΩ)	DC TYP. (A) ⁽¹⁾	(A) ⁽²⁾	(A) ⁽³⁾	TYP. (MHz)
0.56	1.02	1.09	61	70	101	50.0
1.0	1.25	1.34	55	56	81	31.5
1.5	1.51	1.62	48	44	63	23.0
3.3	3.12	3.34	36	28	41	12.3
8.2	7.23	7.74	20.7	23.1	33	8.7
10	9.31	9.96	18.7	21.6	31.1	8.4
33	25.2	27.0	10.2	9.9	14.3	4.4

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
- $^{(1)}$ 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 %
- $^{(3)}$ DC current (A) that will cause L $_0$ to drop approximately 30 %

FEATURES

- High temperature rating, up to 155 °C
- Shielded construction



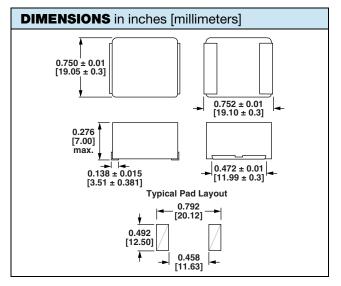


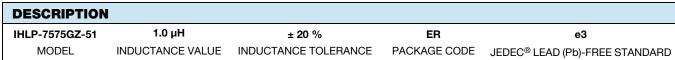
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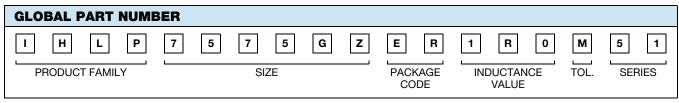
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design; PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- 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)





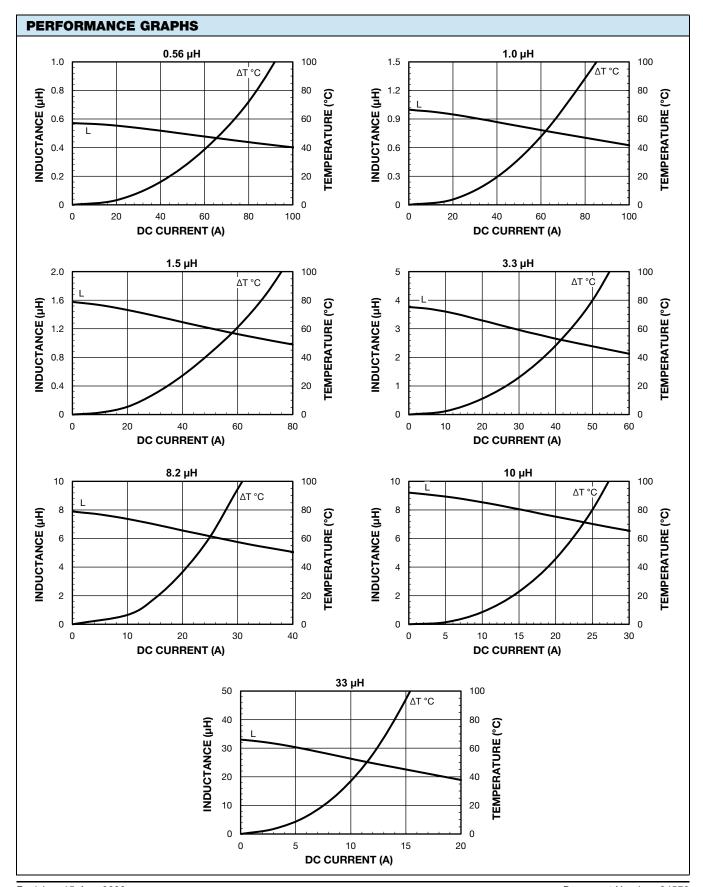


PATENT(S): www.vishay.com/patents

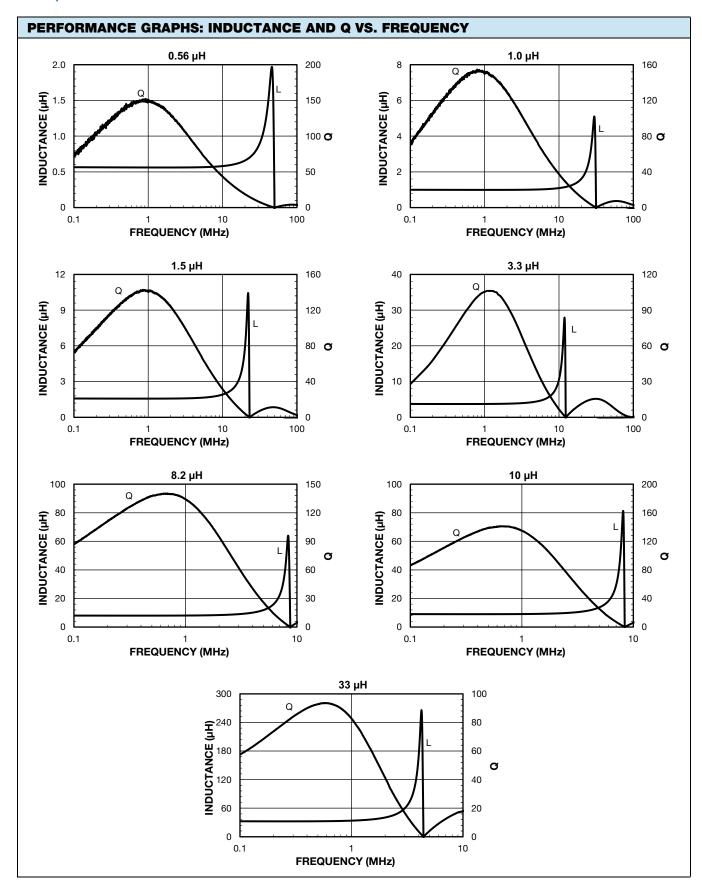
Revision: 15-Aug-2022

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











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Vishay

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