

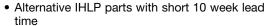
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Vishay Dale

IHLP® Commercial Inductors, High Saturation Series



FEATURES





Shielded construction

 Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)

ROHS COMPLIANT HALOGEN FREE

- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- 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)

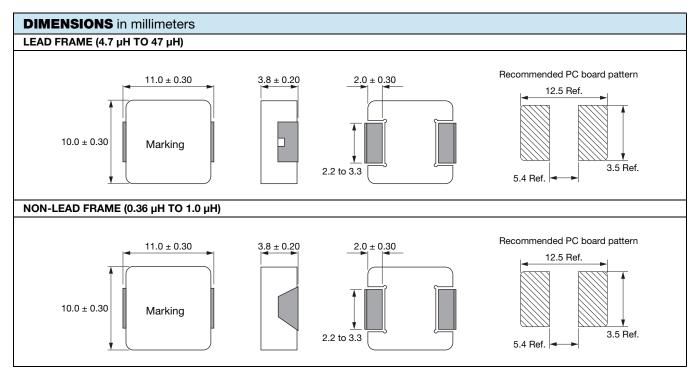
STANDARD ELECTRICAL SPECIFICATIONS							
L ₀ INDUCTANCE AT 100 kHz, 1.0 V, 0 A (μH)	TOLERANCE (%)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) (1)	SATURATION CURRENT DC TYP. (A) (2)	SATURATION CURRENT DC TYP. (A) ⁽³⁾	SRF REF. (MHz)
0.36	± 20	1.05	1.18	32.0	30.0	48.0	105
0.47	± 20	1.53	1.68	30.0	28.0	46.0	78
0.56	± 20	1.61	1.8	25.0	22.0	33.0	68
1.0	± 20	2.9	3.25	20.0	18.0	29.0	50
4.7	± 20	15.8	19.0	8.8	7.6	13.0	16
6.8	± 20	22	24.5	7.8	7.2	12.2	13
10	± 20	27.8	30.5	7.5	5.5	8.6	11
15	± 20	41	45.0	6.25	4.5	7.0	9
22	± 20	60.4	66.0	5.0	3.8	6.2	8
33	± 20	87.5	94.5	4.4	3.0	5.5	7
47	± 20	132	145	3.3	2.7	4.0	5

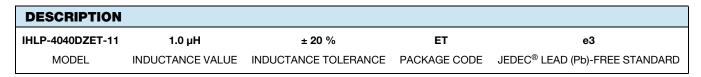
Notes

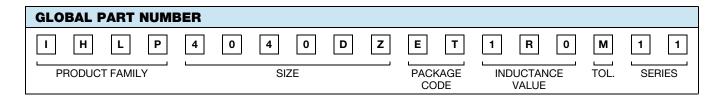
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component
 placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be
 verified in the end application
- $^{(1)}\,$ 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 %
- (3) DC current (A) that will cause L₀ to drop approximately 30 %

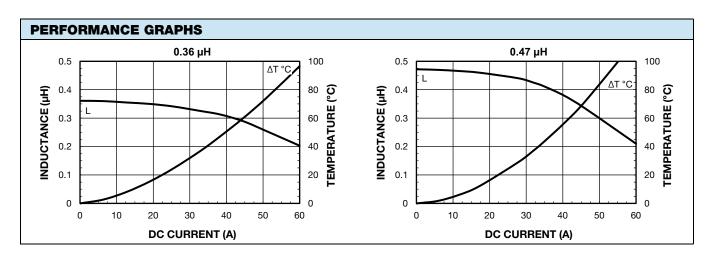


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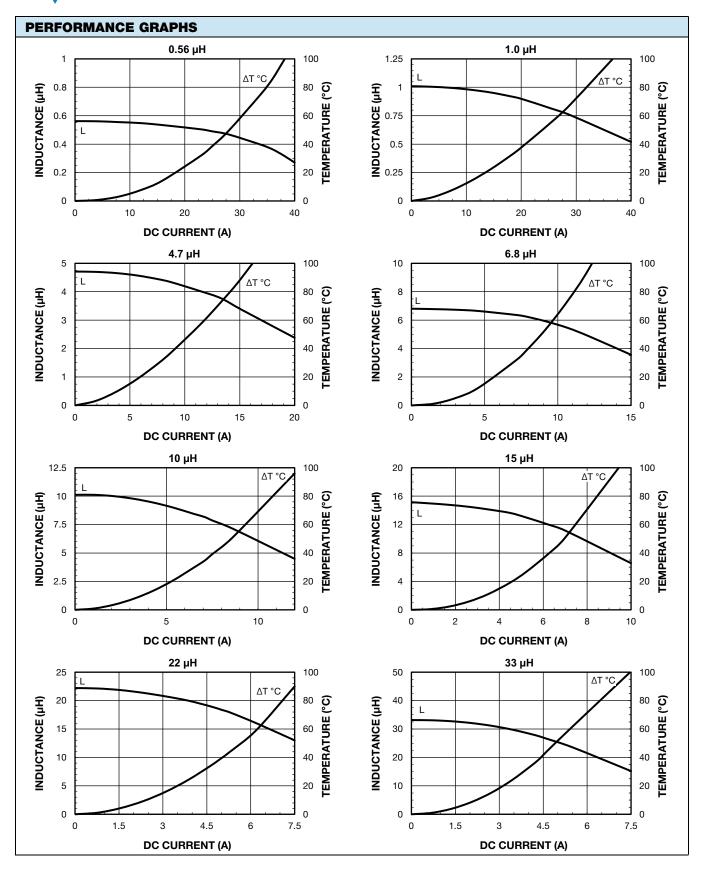




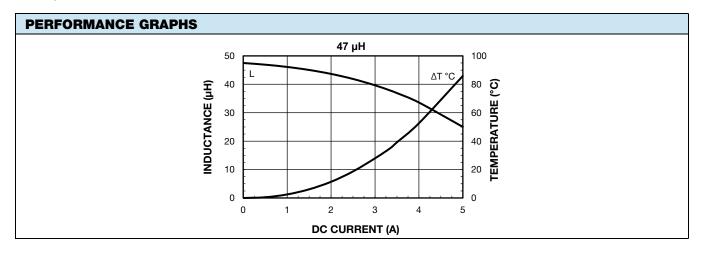




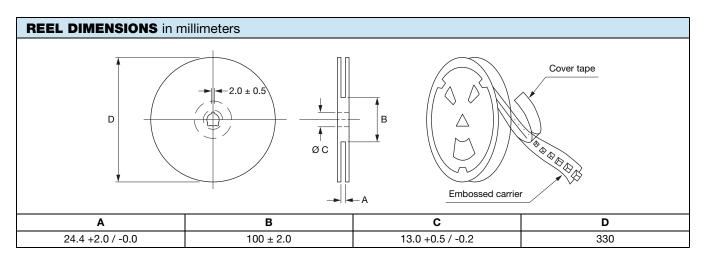
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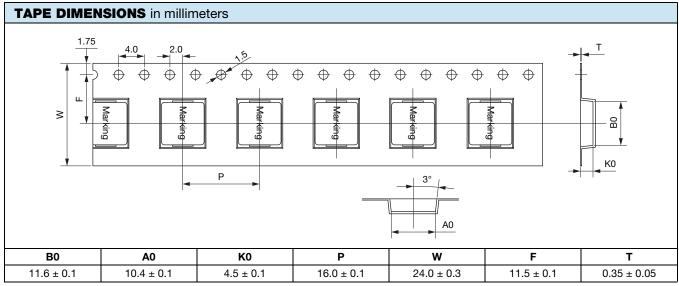


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PACKAGING INFORMATION





Note

• Reel quantity = 500 pcs



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