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Vishay Dale

AUTOMOTIVE

RoHS

COMPLIANT

FREE

GREEN

(5-2008)

IHLP® Automotive Inductors, High Saturation Series



DESIGN SUPPORT TOOLS AVAILABLE





STANDARD ELECTRICAL SPECIFICATIONS					
L ₀ INDUCTANC E ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX 25 °C (mΩ)	HEAT RATING CURREN T DC TYP. (A) (1)	SATURATIO N CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)
0.10	8.98	9.61	10.48	18.92	419
0.15	11.12	12.14	9.06	13.13	320
0.22	12.29	13.21	7.93	10.23	251
0.33	17.58	18.34	6.96	9.32	180
0.47	26.04	27.39	5.86	8.17	157
1.0	50.50	53.72	4.13	5.85	86
1.2	60.16	62.79	3.81	5.61	79

Notes

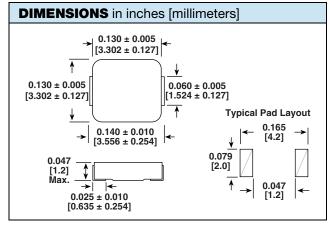
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Rated operating voltage (across inductor) = 50 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 %

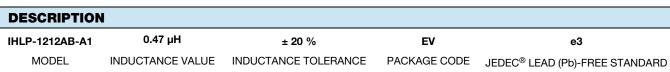
FEATURES

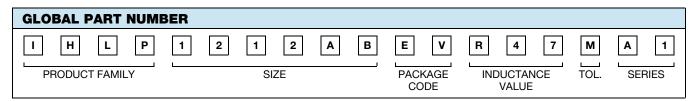
- Shielded construction
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Excellent DC/DC energy storage up to 5 MHz.
 Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)
- AEC-Q200 qualified
- IHLP design. PATENT(S): www.vishav.com/patents
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- · Engine and transmission control units
- · Diesel injection drivers
- DC/DC converters for entertainment/navigation systems
- Noise suppression for motors: windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- LED drivers





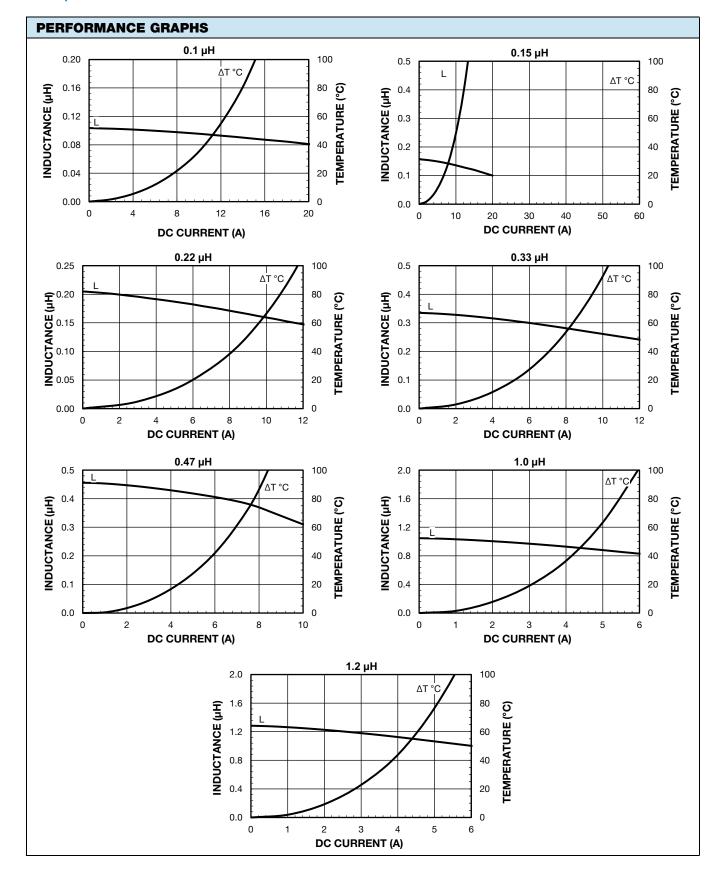


PATENT(S): www.vishay.com/patents

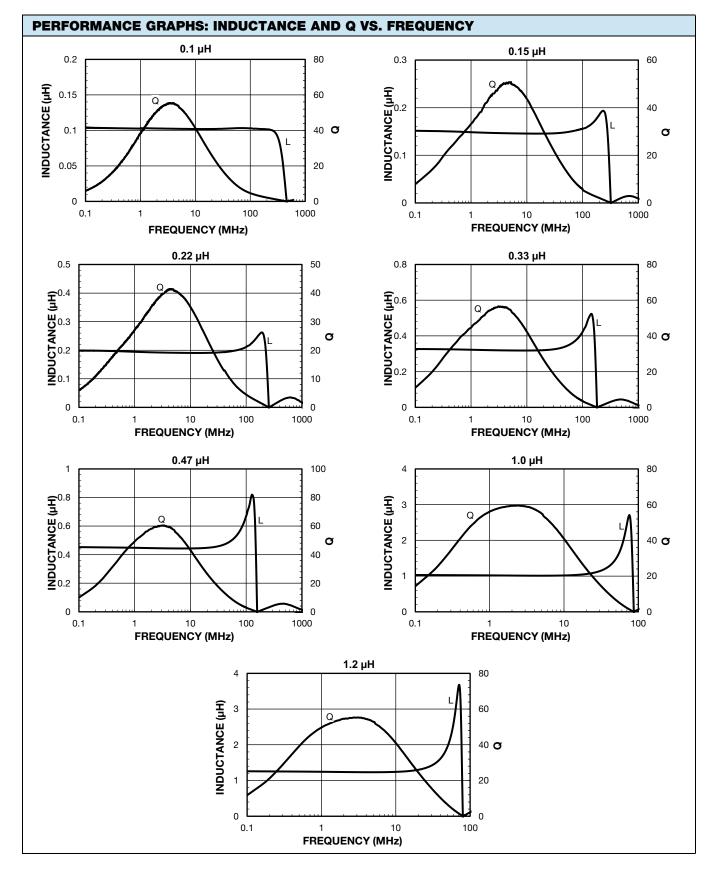
Revision: 29-May-2019

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











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Vishay

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