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Vishay Dale

IHLP[®] Automotive Inductors, High Saturation Series



DESIGN SUPPORT TOOLS AVAILABLE

STANDADD ELECTRICAL SPECIEICATIONS

3-0 3D Models

X0 **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)					
0.22	1.57	1.68	30.7	45.0	126					
0.33	2.00	2.14	29.5	36.0	97					
0.47	2.45	2.62	25.0	31.5	74					
0.68	3.43	3.67	21.0	24.5	59					
0.82	4.13	4.42	19.0	24.2	53					
1.0	5.40	5.78	18.0	24.0	42					
2.2	12.80	13.70	10.5	23.0	33					
3.3	16.50	17.70	9.2	20.0	25					
4.7	29.90	32.00	7.25	15.0	20					
5.6	33.20	35.50	6.8	16.7	18					
6.8	44.60	47.70	5.7	15.2	15					
8.2	47.50	50.80	5.5	10.0	17					
10.0	56.00	59.90	5.2	9.0	15					

Notes

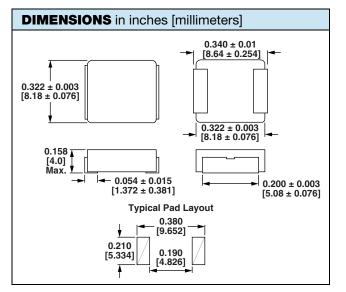
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Rated operating voltage (across inductor) = 75 V (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 %

FEATURES

- Shielded construction
- Excellent DC/DC energy storage up to 5 MHz. Filter inductor applications up to SRF (see "Standard Electrical Specifications" table) Operating temperature up to 125 °C
- Lowest DCR/µH, in this package size
- · Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- AEC-Q200 gualified
- IHLP design. PATENT(S): <u>www.vishay.com/patents</u>
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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 blowers
 - HID lighting
- LED drivers



IHLP-3232DZ-A1 4.7 μH		± 2	± 20 %			e3		
MODEL	INDUCTANCE VALUE	INDUCTANCI	E TOLERANCE	PACKAGE CO	DDE JEDEC [®] LEAD	(Pb)-FREE S	FANDARD	
GLOBAL PAR	T NUMBER							
I H L	P 3 2	3 2	DZ	ER	4 R 7	ΜΑ	1	
PRODUCT FAM	MILY	SIZE	,	PACKAGE CODE	INDUCTANCE VALUE	TOL. S	ERIES	
PATENT(S): <u>www.</u> This Vishay produ	vishay.com/patents							

Revision: 04-Jun-2019

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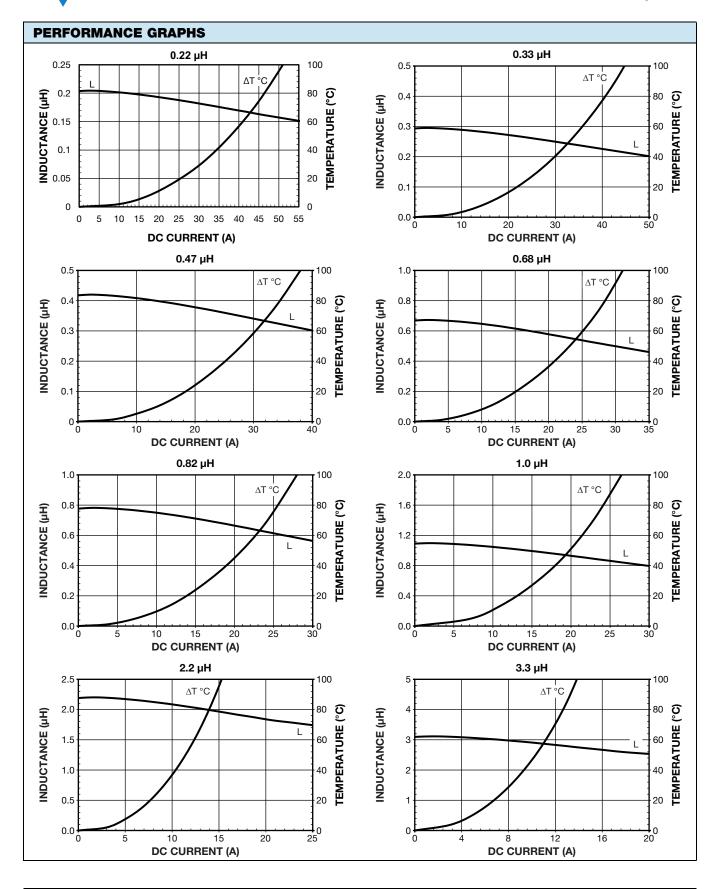
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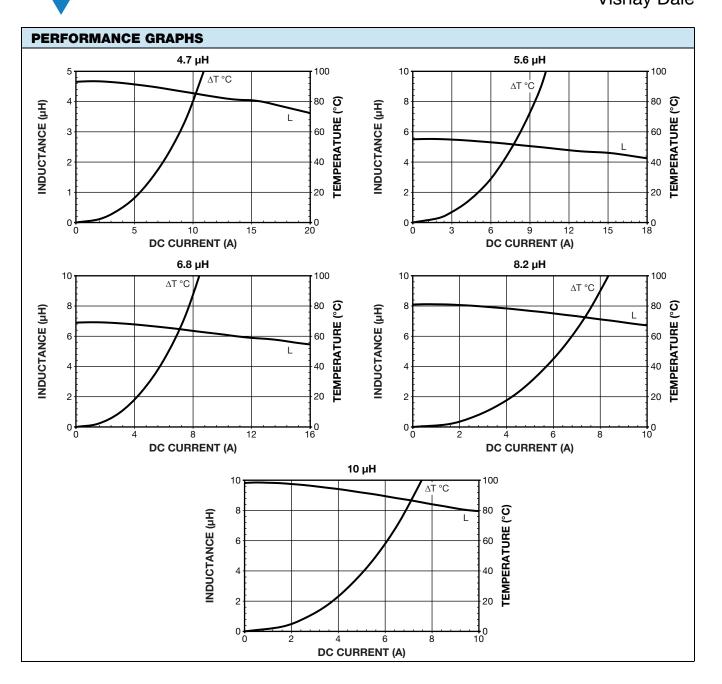
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IHLP-3232DZ-A1

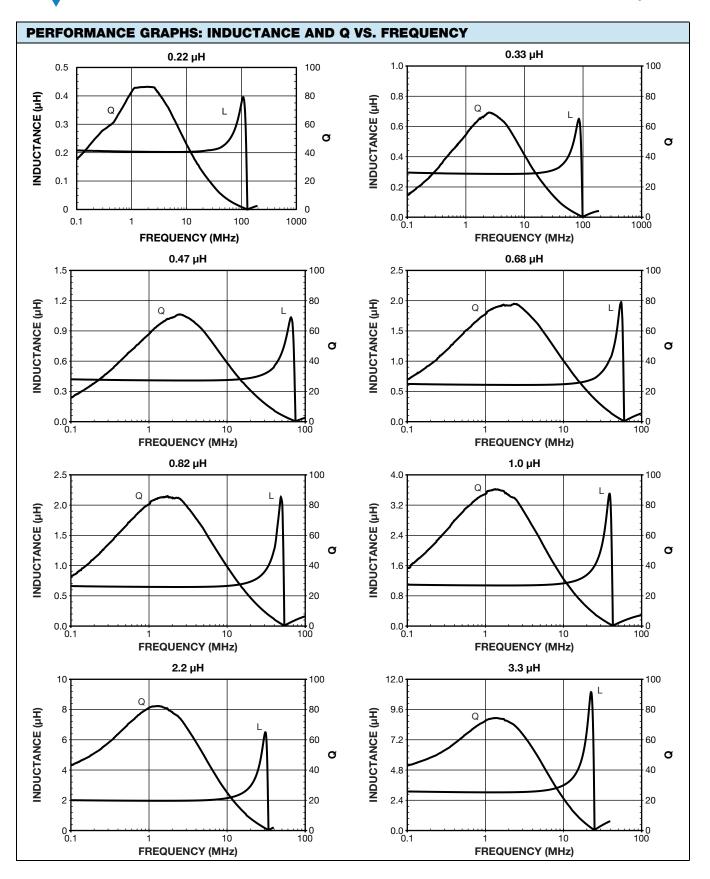


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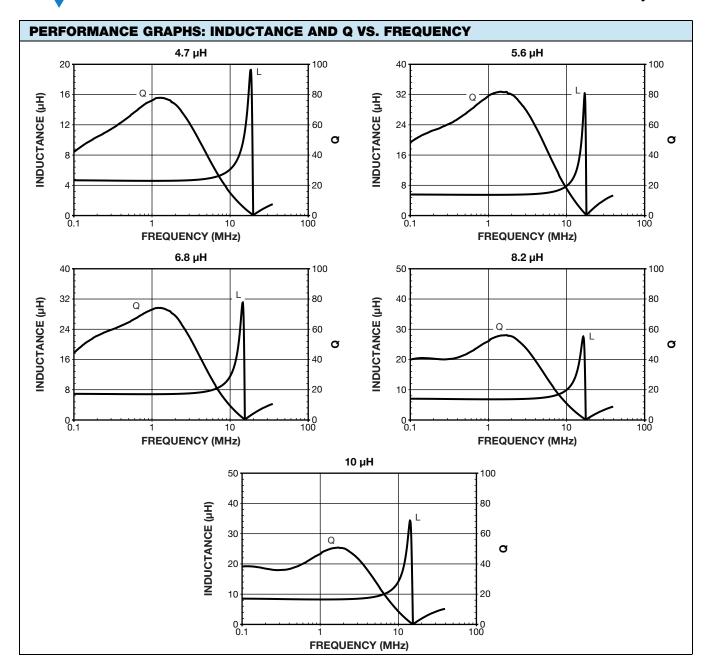
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