



High Current Through Hole Inductor, High Temperature Series



Manufactured under one or more of the following: US Patents; 6,198,375/6,204,744/6,449,829/6,460,244. Several foreign patents, and other patents pending.

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) ⁽³⁾	SATURATION CURRENT DC TYP. (A) (4)	SFR TYP. (MHZ)	
0.47	0.26	0.3	125	112	57.25	
1.0	0.43	0.50	90	65	29.30	
2.2	0.70	0.77	72	64	17.25	
3.3	1.40	1.50	51	62	13.95	
4.7	1.65	1.82	45.5	55	11.36	
6.8	1.84	1.97	44.5	44	9.35	
8.2	2.82	3.00	34	24	9.24	
10	3.20	3.64	29	22.5	7.76	
15	4.45	4.76	26	20	6.17	
22	6.39	6.83	21.0	23	5.61	
33	10.2	11.0	16.8	22.5	4.20	
47	13.2	14.6	14.7	16.2	2.99	
68	25.6	27.4	10.5	9.6	2.95	
100	30.7	32.2	8.8	6.0	2.04	

Notes

- All test data is referenced to 25 °C ambient Operating temperature range 55 °C to + 155 °C
- DC current (A) that will cause an approximate ΔT of 40 °C DC current (A) that will cause L₀ to drop approximately 20 %
- 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

FEATURES

- Shielded construction
 Excellent DC/DC energy storage up to 1 MHz to 2 MHz
- Filter inductor spplications up SRF (see table below)
- Handlés high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- High Temperature, up to 155 °C
 AEC-Q200 qualified
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

AUTOMOTIVE



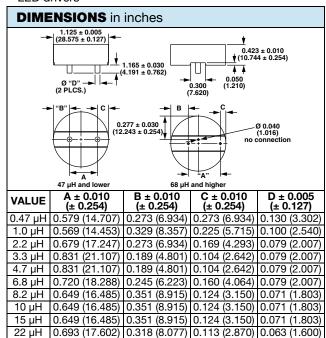
RoHS COMPLIANT

HALOGEN FREE

GREEN (5-2008)

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

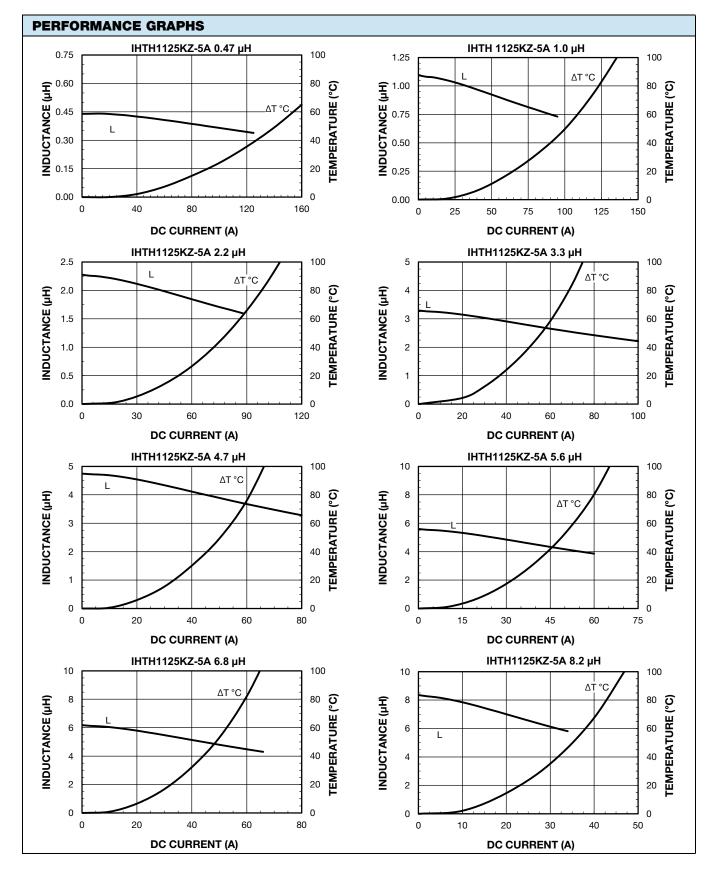


33 µH | 0.758 (19.253) | 0.274 (6.956) | 0.091 (2.311) | 0.056 (1.422 47 μH | 0.758 (19.253) | 0.274 (6.956) | 0.091 (2.311) | 0.056 (1.422)

component placement, I WD trace size and trilemess, airnow	
and other cooling provisions all affect the part temperature. Part	68 µH 0.653 (16.586) 0.357 (9.068) 0.113 (2.87) 0.044 (1.118
temperature should be verified in the end application.	100 µH 0.653 (16.586) 0.357 (9.068) 0.113 (2.87) 0.044 (1.118
DESCRIPTION	
IHTH-1125KZ-5A 4.7 j	ıH ± 20 %
MODEL INDUCTANG	DE VALUE INDUCTANCE TOLERANCE
GLOBAL PART NUMBER	
I H T H 1 1 2 5 K	Z E B 4 R 7 M 5 A
MODEL SIZE	PACKAGE INDUCTANCE INDUCT. SERIES

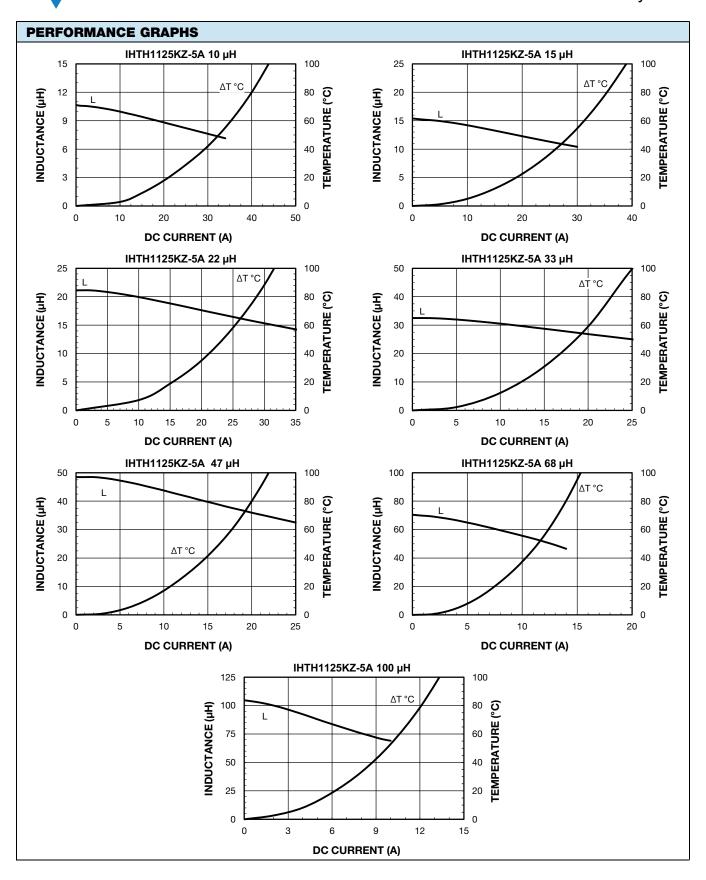
Revision: 22-Jul-13 Document Number: 34349



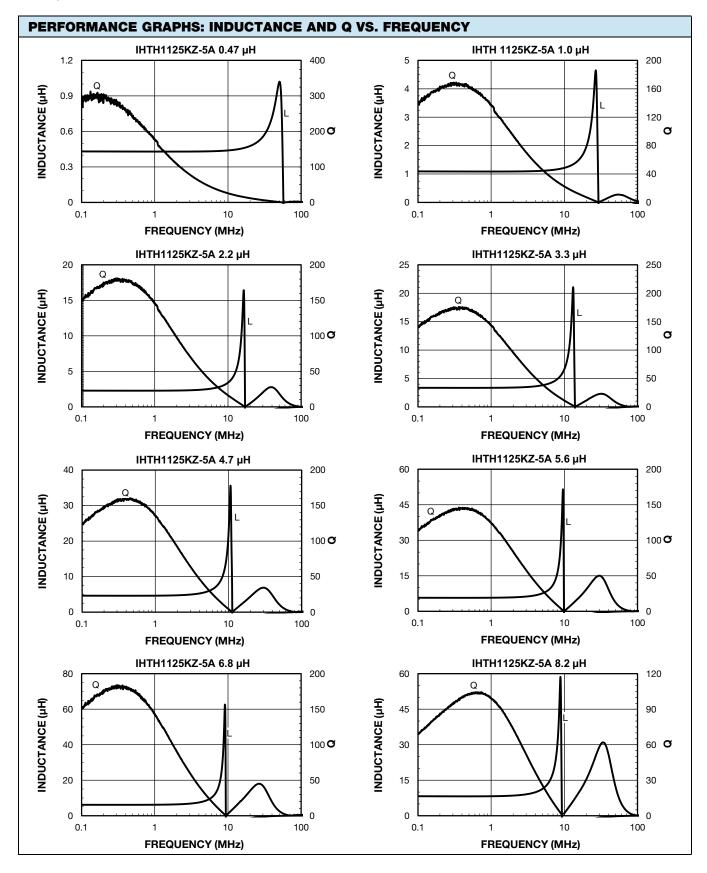


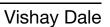


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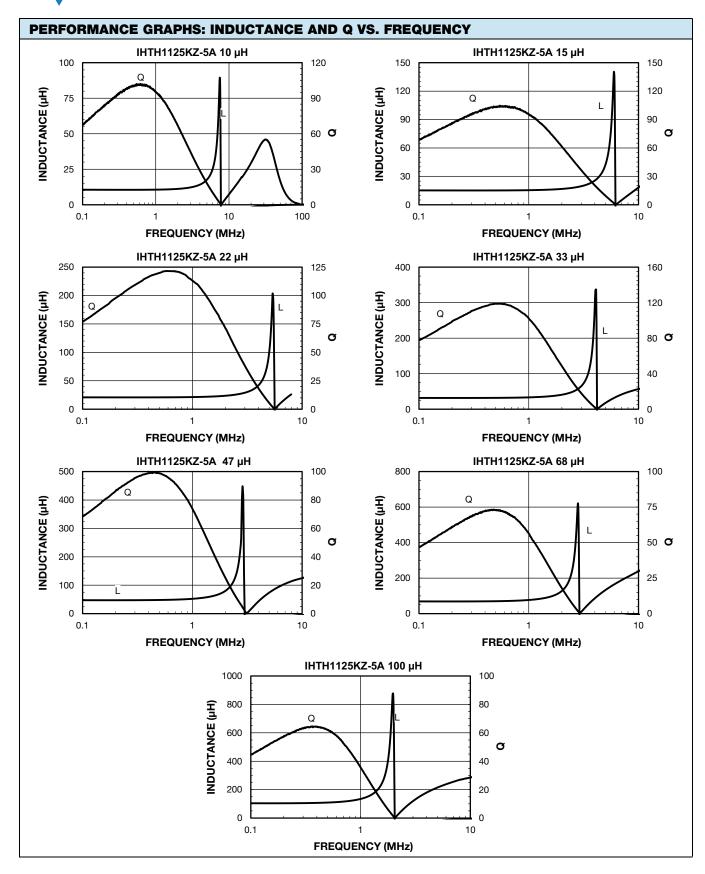














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