

Excellent Integrated System Limited

Stocking Distributor

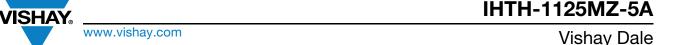
Click to view price, real time Inventory, Delivery & Lifecycle Information:

<u>Vishay/Dale</u> <u>IHTH1125MZEB3R3M5A</u>

For any questions, you can email us directly: sales@integrated-circuit.com

Datasheet of IHTH1125MZEB3R3M5A - FIXED IND 3.3UH THROUGH HOLE

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



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)	SRF 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	57	62	15.8		
4.7	1.34	1.43	50	52	11.36		
6.8	1.84	1.97	44.5	44	9.35		
8.2	2.82	3.00	34.5	32	9.24		
10	3.20	3.64	33	30	7.76		
15	4.45	4.76	26	20	6.17		
22	6.39	6.83	21.0	23	5.61		
33	10.6	11.3	15.9	18	4.20		
47	13.2	14.6	14.0	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

MODEL

- 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 an approximate $\Delta 1$ or 40 °C DC current (A) that will cause L_0 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 temperature should be verified in the end application.

FEATURES

- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to MHz
- Filter inductor applications up to SRF "Standard Electrical Specifications" table) Handles 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

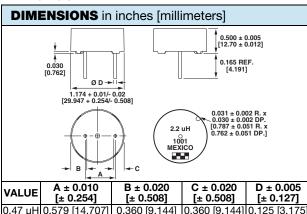
AUTOMOTIVE GRADE

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



VALUE	[± 0.254]	[± 0.508]	[± 0.508]	[± 0.127]	
0.47 µH	0.579 [14.707]	0.360 [9.144]	0.360 [9.144]	0.125 [3.175]	
1.0 µH	0.574 [14.580]	0.407 [10.338]	0.303 [7.696]	0.100 [2.540]	
2.2 µH	0.684 [17.373]	0.355 [9.017]	0.250 [6.350]	0.100 [2.540]	
3.3 µH	0.660 [16.764]	0.346 [8.788]	0.260 [6.604]	0.079 [2.007]	
4.7 µH	0.660 [16.764]	0.346 [8.788]	0.260 [6.604]	0.079 [2.007]	
6.8 µH	0.723 [18.364]	0.315 [8.001]	0.228 [5.791]	0.079 [2.007]	
8.2 µH	0.703 [17.856]	0.390 [9.906]	0.163 [4.140]	0.071 [1.803]	
10 μH	0.703 [17.856]	0.390 [9.906]	0.163 [4.140]	0.071 [1.803]	
15 µH	0.649 [16.485]	0.412 [10.465]	0.185 [4.699]	0.071 [1.803]	
22 µH	0.696 [17.678]	0.379 [9.627]	0.175 [4.445]	0.063 [1.600]	
33 µH	0.702 [17.831]	0.349 [8.865]	0.185 [4.699]	0.050 [1.270]	
47 µH	0.702 [17.831]	0.349 [8.865]	0.185 [4.699]	0.050 [1.270]	
68 µH	0.657 [16.688]	0.406 [10.312]	0.164 [4.166]	0.044 [1.118]	
100 µH	0.657 [16.688]	0.406 [10.312]	0.164 [4.166]	0.044 [1.118]	

INDUCTANCE VALUE

INDUCT.

SERIES

DESCRIPTION				
IHTH-1125MZ-5A	4.7 μΗ	± 20 %		
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE		
GLOBAL PART NUMBER				
I H T H 1 1	2 5 M Z E B	4 R 7 M 5 A		

Revision: 20-Aug-14 Document Number: 34204

PACKAGE CODE

SIZE

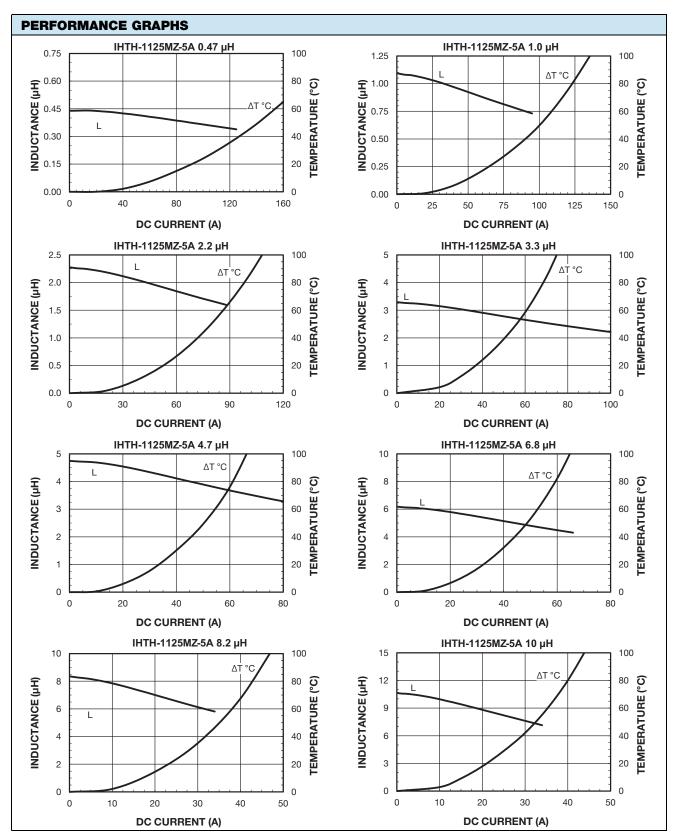
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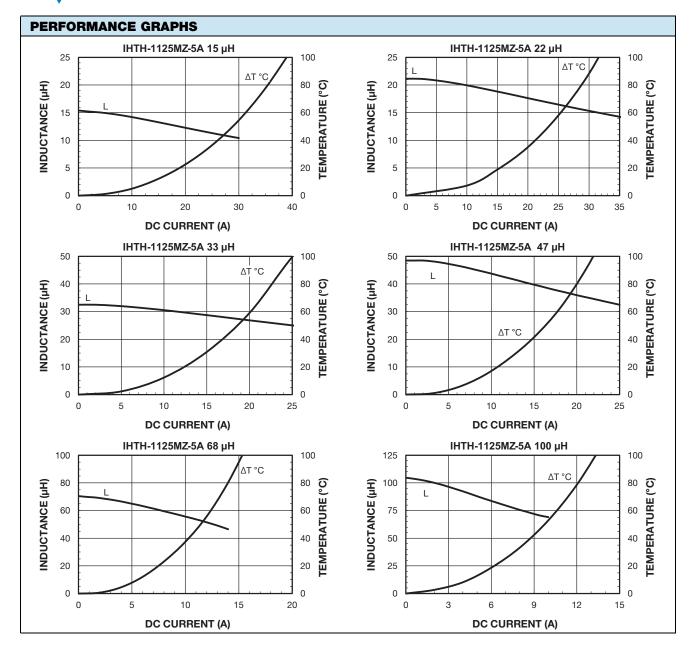
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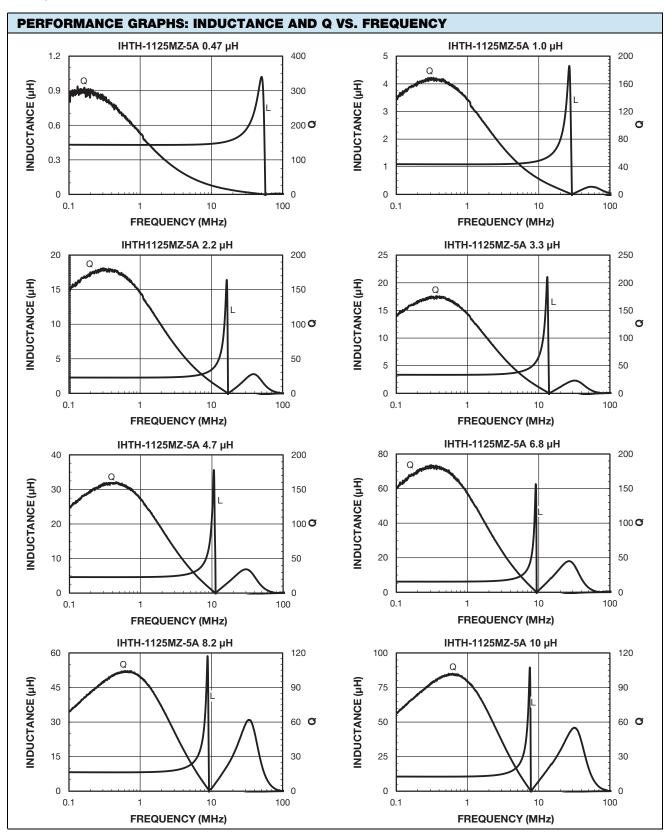


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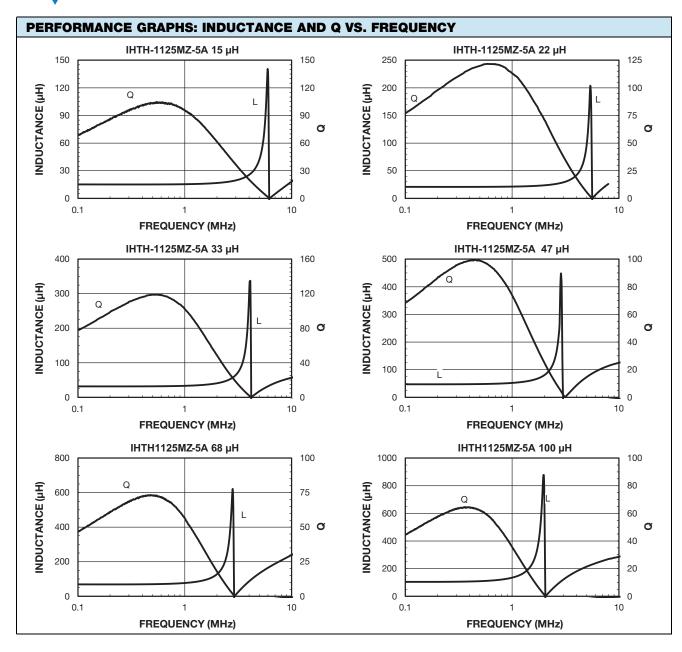


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