

# **Excellent Integrated System Limited**

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Vishay/Dale IHTH0750JZEB100M5A

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### Distributor of Vishay/Dale: Excellent Integrated System Limited

Datasheet of IHTH0750JZEB100M5A - FIXED IND 10UH 17A 7.7 MOHM TH

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**IHTH-0750JZ-5A** 

Vishay Dale

AUTOMOTIVE

RoHS

COMPLIANT

**GREEN** (5-2008)

## **High Current Through Hole Inductor, High Temperature Series**



www.vishay.com

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 <sub>0</sub> 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) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) (4)			
0.47	0.44	0.468	65.0	51.0			
1.0	0.87	0.919	55.0	45.0			
2.2	1.55	1.63	44.0	38.0			
3.3	2.28	2.4	33.0	32.0			
4.7	2.85	3	25.0	30.0			
6.8	3.97	4.18	23.0	28.0			
8.2	5.83	6.14	19.0	20.0			
10	7.32	7.7	17.0	18.0			
22	12.56	13.22	13.0	12.0			
33	22.61	23.8	8.5	11.0			
47	35.34	37.2	6.5	8.0			
68	46.47	48.92	6.2	6.2			
82	55.20	58.1	5.4	6.0			
100	60.80	64	4.9	5.9			

#### Notes

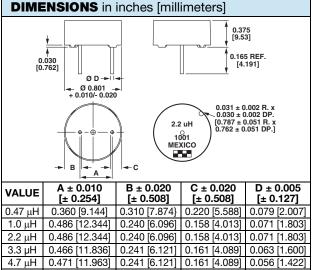
- All test data is referenced to 25 °C ambient Operating temperature range 55 °C to + 155 °C DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- DC current (A) that will cause L<sub>0</sub> to drop approximately 20 % The part temperature (ambient + temp. rise) should not exceed 155 °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**

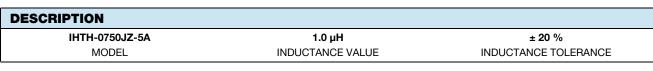
- Shielded construction
- Frequency range up to 1.0 MHz
- Handles high transient current spikes without
- Ultra low buzz noise, due to composite construction
- High Temperature, up to 155 °C
- AEC-Q200 qualified
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

#### **APPLICATIONS**

- Desktop/server applications
- High current POL converters
- Line filters
- · Motor control systems
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)



0.47 μΠ	0.300 [9.144]	0.310 [7.874]	0.220 [3.366]	0.079 [2.007]
1.0 μΗ	0.486 [12.344]	0.240 [6.096]	0.158 [4.013]	0.071 [1.803]
2.2 μΗ	0.486 [12.344]	0.240 [6.096]	0.158 [4.013]	0.071 [1.803]
3.3 µH	0.466 [11.836]	0.241 [6.121]	0.161 [4.089]	0.063 [1.600]
4.7 μΗ	0.471 [11.963]	0.241 [6.121]	0.161 [4.089]	0.056 [1.422]
6.8 μΗ	0.525 [13.335]	0.208 [5.283]	0.142 [3.607]	0.056 [1.422]
8.2 μΗ	0.433 [10.998]	0.298 [7.569]	0.136 [3.251]	0.050 [1.270]
10 μΗ	0.433 [10.998]	0.298 [7.569]	0.136 [3.251]	0.050 [1.270]
22 µH	0.452 [11.481]	0.270 [6.858]	0.128 [3.251]	0.039 [0.991]
33 μΗ	0.477 [12.116]	0.250 [6.350]	0.120 [3.048]	0.035 [0.889]
47 μΗ	0.440 [11.176]	0.290 [7.366]	0.120 [3.048]	0.031 [0.787]
68 μH	0.440 [11.176]	0.290 [7.366]	0.120 [3.048]	0.031 [0.787]
82 μΗ	0.465 [11.811]	0.285 [7.239]	0.100 [2.540]	0.028 [0.711]
100 μΗ	0.465 [11.811]	0.285 [7.239]	0.100 [2.540]	0.028 [0.711]





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# Distributor of Vishay/Dale: Excellent Integrated System Limited Datasheet of IHTH0750JZEB100M5A - FIXED IND 10UH 17A 7.7 MOHM TH

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



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