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HALOGEN FREE GREEN

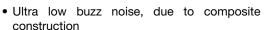
(5-2008)

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



#### **FEATURES**

- High temperature, up to 155 °C
- · Shielded construction
- Frequency range up to 5.0 MHz
- Handles high transient current spikes without saturation





#### **APPLICATIONS**

- Industrial high current filters
- Switching regulators
- In-line noise filters
- Differential mode choke
- Boost power factor correction choke
- Solar power / wind power applications

STANDARD ELECTRICAL SPECIFICATIONS										
L <sub>0</sub> INDUCTANCE ± 20 % AT 500 kHz, 2 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(3)</sup>	HEAT RATING CURRENT DC TYP. (A) <sup>(4)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(5)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(6)</sup>				
0.68	0.12	0.13	154	235	301	420				
0.82	0.17	0.18	132	196	235	332				
1.5	0.25	0.26	120	178	138	193				
2.2	0.32	0.34	115	168	104	150				
3.3	0.40	0.42	96	150	87	124				

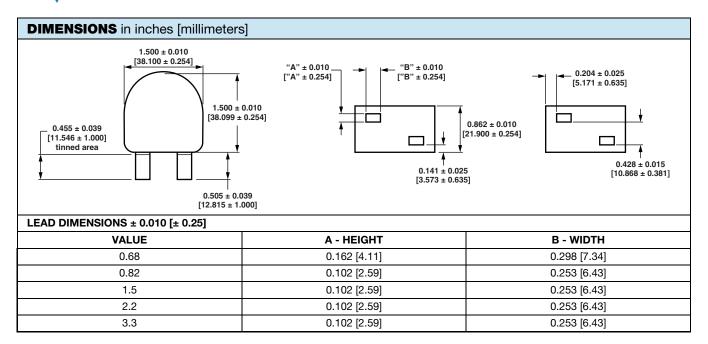
#### Notes

- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +155 °C
- $^{(3)}$  DC current (A) that will cause an approximate  $\Delta T$  of 40  $^{\circ}$ C after one hour
- $^{(4)}\,$  DC current (A) that will cause an approximate  $\Delta T$  of 100 °C after one hour
- $^{(5)}$  DC current (A) that will cause L<sub>0</sub> to drop approximately 20 %
- (6) DC current (A) that will cause L<sub>0</sub> to drop approximately 30 %
- (7) 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



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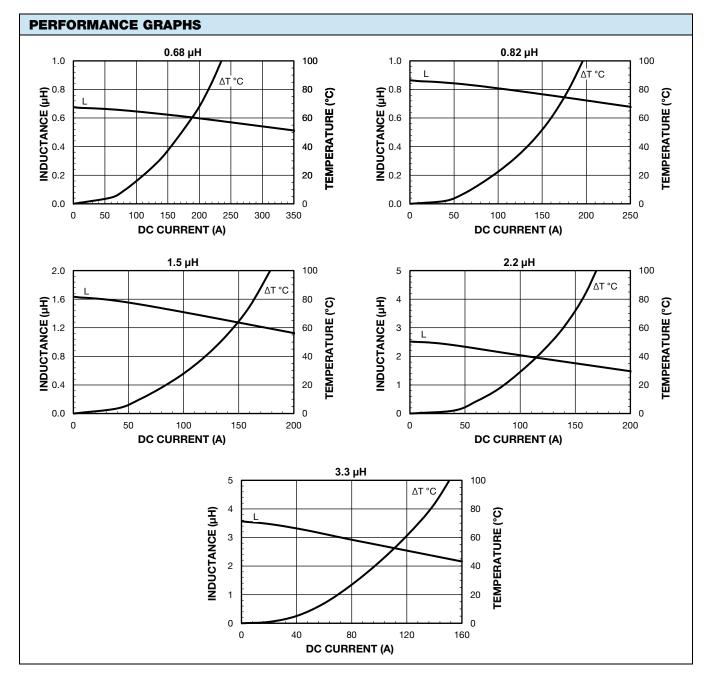
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DESCRIPTION								
IHXL-1500VZ-51	2.2 μΗ	± 20 %	EB	e3				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD				

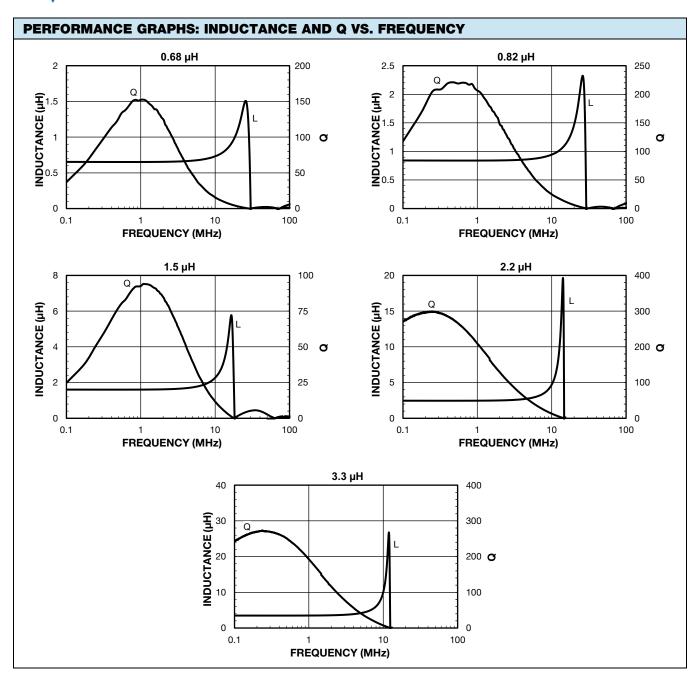
GLOBAL PART NUMBER									
I H X L 1	SIZE	E B PACKAGE CODE	2 R 2 INDUCTANCE VALUE	M 5 1 TOL. SERIES					







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