

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
- Ultra low buzz noise, due to composite construction
- 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

- Automotive

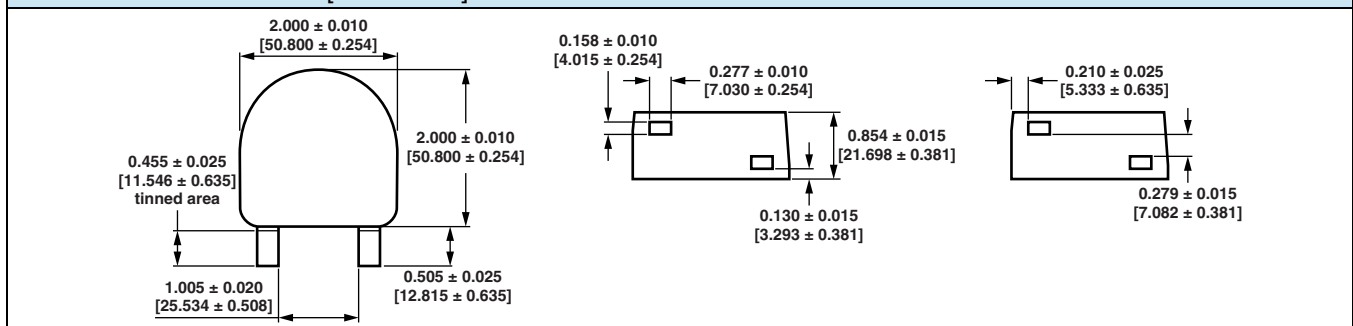
STANDARD ELECTRICAL SPECIFICATIONS

L_0 INDUCTANCE $\pm 20\%$ AT 500 kHz, 2 V, 0 A (μH)	DCR TYP. 25 °C ($\text{m}\Omega$)	DCR MAX. 25 °C ($\text{m}\Omega$)	HEAT RATING CURRENT DC TYP. (A) ⁽³⁾	HEAT RATING CURRENT DC TYP. (A) ⁽⁴⁾	SATURATION CURRENT DC TYP. (A) ⁽⁵⁾	SATURATION CURRENT DC TYP. (A) ⁽⁶⁾
2.2	0.21	0.23	125	187	190	280

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 ΔT of 40 °C
- (4) DC current (A) that will cause an approximate ΔT of 100 °C
- (5) DC current (A) that will cause L_0 to drop approximately 20 %
- (6) DC current (A) that will cause L_0 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

DIMENSIONS in inches [millimeters]



DESCRIPTION

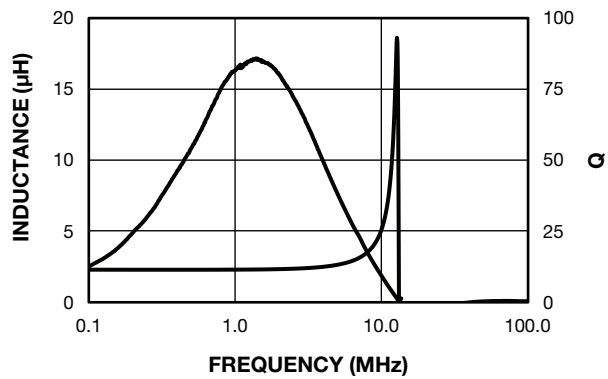
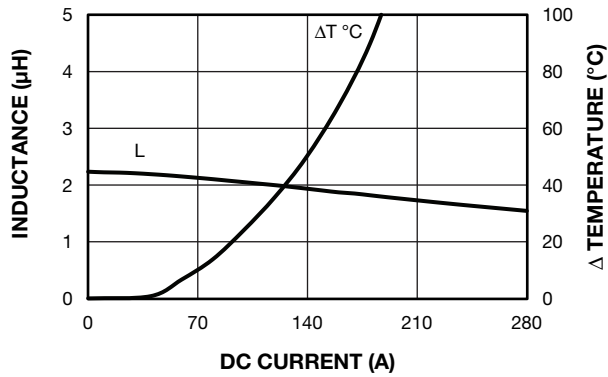
IHXL-2000VZ-5A	2.2 μH	$\pm 20\%$	EB	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	H	X	L	2	0	0	0	V	Z	E	B	2	R	2	M	5	A
PRODUCT FAMILY				SIZE					PACKAGE CODE		INDUCTANCE VALUE		TOL.	SERIES			



PERFORMANCE GRAPHS





INTERACTIVE 3D MODEL

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- For a long term solution, you can also do following:
 - Go to “Edit” → “Preferences” → “3D & Multimedia” → and mark “Enable playing of 3D content” → confirm with “OK”

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