Automotive, High Current, Radial, Through-Hole Inductor, High Temperature (155 °C)



FEATURES

- High temperature rating, up to 155 °C
- 50.8 mm x 50.8 mm x 21.7 mm size
- Metal alloy construction for excellent magnetic shielding and high thermal conductivity to minimize hot spots
- Flat surface for mounting heat sink or active cooling cold plate
- Handles high transient current spikes without saturation
- Custom solutions available for termination style (swaged, 90° bend, SMD, etc.), inductance, current, and temperature rating
- AEC-Q200 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

LINKS TO ADDITIONAL RESOURCES

Product Page

APPLICATIONS

- Automotive high current battery charging
- Brushless DC motor (BLDC)
- DC-Link filter
- Differential mode choke
- Boost power factor correction choke
- Solar power / wind power applications

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L_0 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) (3)	HEAT RATING CURRENT DC TYP. (A) (4)	SATURATION CURRENT DC TYP. (A) (5)	SATURATION CURRENT DC TYP. (A) (6)
IHXL2000VZEB2R2M5A	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

For technical questions, contact: magnetics@vishay.com

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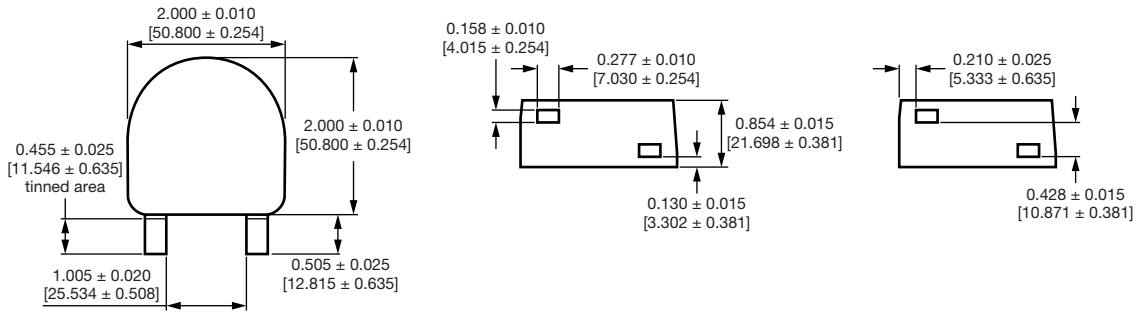
DESCRIPTION

IHXL-2000VZ-5A	2.2 µH	± 20 %	BULK / TRAY PACKAGING	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	INDUCTANCE TOLERANCE	SERIES
		EB = tray pack 40 pcs/box	**2R2** = 2.2 µH	**M** = ± 20 %	

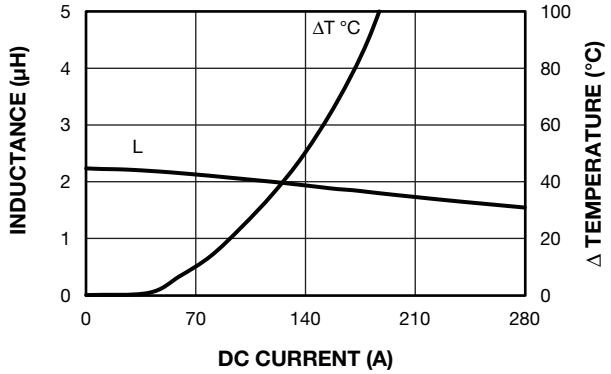
DIMENSIONS in inches [millimeters]

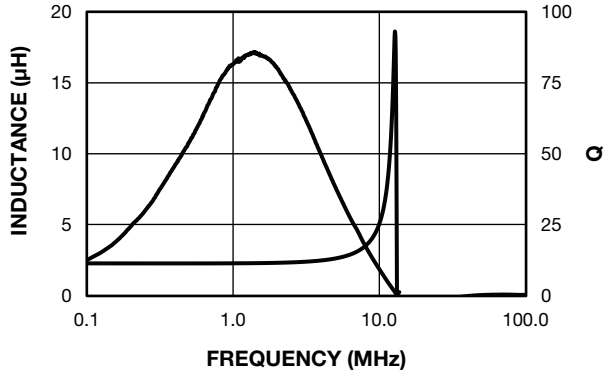


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PERFORMANCE GRAPHS





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