

www.vishay.com

Vishay Dale

AUTOMOTIVE

RoHS

COMPLIANT

Low Profile, High Current Dual Inductors



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)
5	27.3	29.2	6.0	8.5	18.0
10	50.0	53.50	5.0	5.2	13.0
15	62.0	66.34	4.2	3.5	10.0
22	103.0	110.21	3.3	2.9	9.0
33	149.0	159.43	2.4	2.9	6.1

Notes

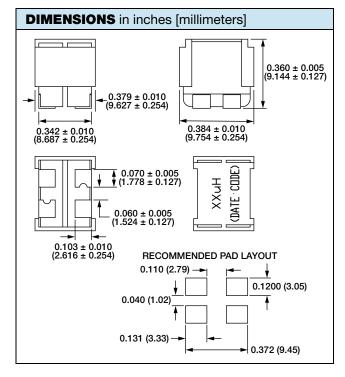
- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +155 °C
- $^{(3)}$ DC current (A) that will cause an approximate ΔT of 40 $^{\circ}$ C
- $^{(4)}\,$ DC current (A) that will cause L_0 to drop approximately 20 %
- (5) The part temperature (ambient + temp. 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.

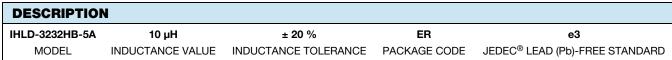
FEATURES

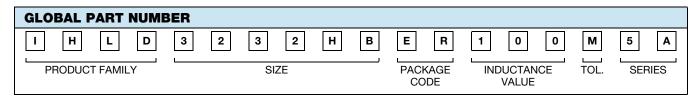
- Two inductors in one package
- High temperature, up to 155 °C
- Shielded construction
- Optimal design realizes high quality sound and low distortion
- Low coupling for minimal cross-talk between inductors
- Frequency range up to 1 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra-low buzz noise, due to composite construction
- AEC-Q200 qualified
- Material categorization: for definitions of compliance please see <u>www.vishav.com/doc?99912</u>

APPLICATIONS

· Class D audio amplifiers

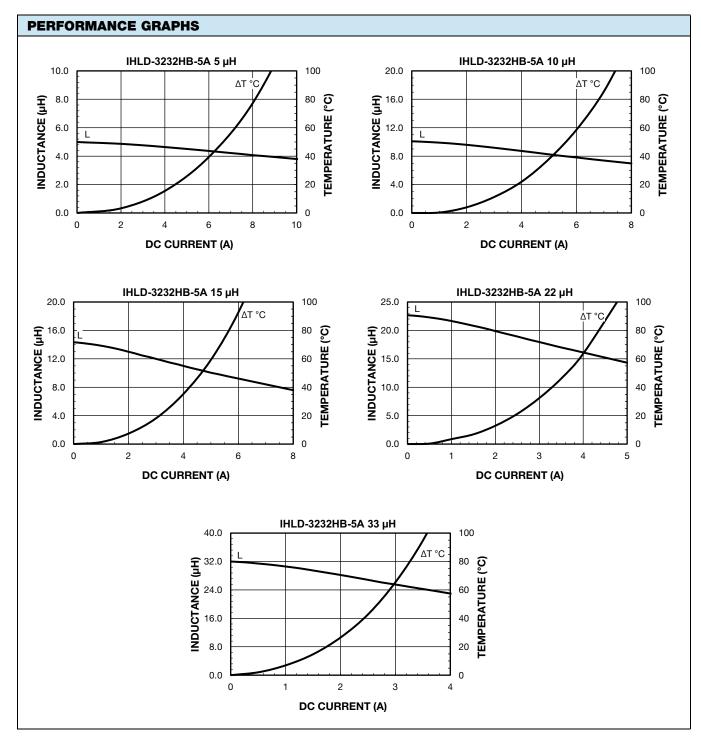




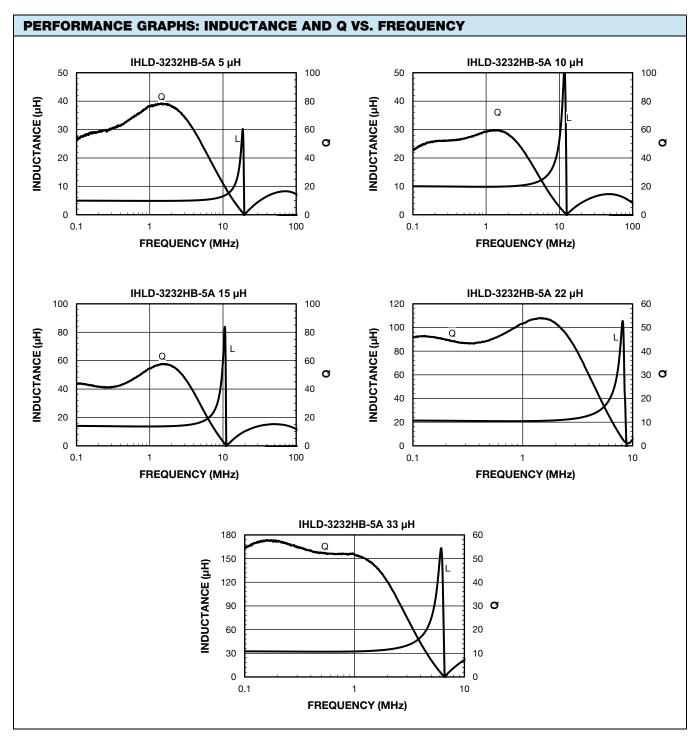


Revision: 18-Dec-15 1 Document Number: 34383











Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Coupled Inductors category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

NPIS48LS1R0YTRF NPIS21LS2R2MTRF NIN-HCR27JTRF 744874470 CPL-4-50TR-R CTX20-1A-R CL1208-2-100TR-R SDQ25-470-R LPD5030-153MRC LPD5030-105MRC MSD1260-154KLD MSD1260-224KLD MSD1260-474KLD MSD1260-472MLD MSD1260-103MLD MSD1260-153MLD MSD1278-154KLD MSD1583-103MED MSD1583-223MED MSD1583-683MED MSD7342-224MLC MSD7342-824MLC PFD3215-103MEC LPD3015-332MRC LPD3015-223MRC LPD3015-104MRC LPD4012-223MRC LPD4012-331NRC LPD5010-822MRC LPD6235-155MRC MSD1514-224KED MSD1514-472MED MSD1260-473MLD MSD1260-683MLD B82477D4223M CTX8-1-R CTX16-17769-R HM78D-1210680MLFTR CTX150-4A-R CL-12-24 47330C 47220C 7023 PM3602-25-RC PM3602-100-RC PM3602-5-RC PM3602-20-RC PM3602-50-RC PM3602-50-RC