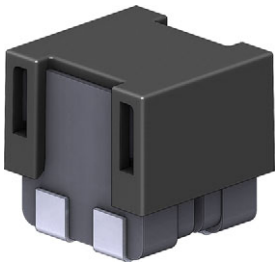
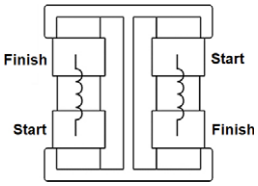
High Current, Dual Inductor





FEATURES

- Two inductors in one package saves board space and assembly time
- High temperature, up to 155 °C
- Magnetically shielded composite construction
- Optimal design realizes high quality sound and low distortion
- Low coupling for minimal cross-talk between inductors
- 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

Pb-free

RoHS COMPLIANT

HALOGEN FREE GREEN (5-2008)

LINKS TO ADDITIONAL RESOURCES

Product Page

3D Models

APPLICATIONS

- Class D audio amplifiers
- Multi-phase converters

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	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) (1)	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)
IHLD2525GGER1R0M5A	1.0	7.4	7.95	13.0	12.3	56.7
IHLD2525GGER4R7M5A	4.7	35.7	38.20	5.4	4.2	26.7
IHLD2525GGER100M5A	10	62.0	66.34	4.1	3.6	16.6
IHLD2525GGER150M5A	15	89.5	95.80	3.2	3.0	15.1
IHLD2525GGER220M5A	22	154.0	164.80	2.2	2.5	10.9

Notes

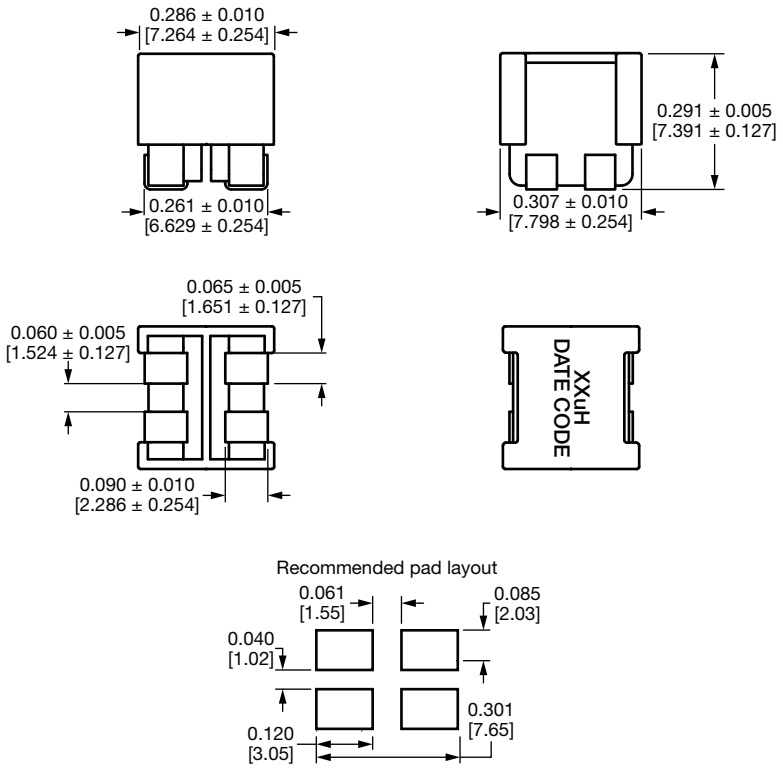
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Rated operating voltage (across inductor) = 50 V

(1) DC current (A) that will cause an approximate ΔT of 40 °C

(2) DC current (A) that will cause L_0 to drop approximately 20 %

For technical questions, contact: magnetics@vishay.com

DIMENSIONS in inches [millimeters]



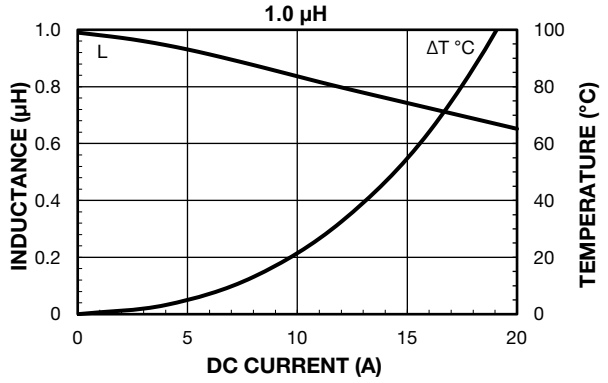
DESCRIPTION

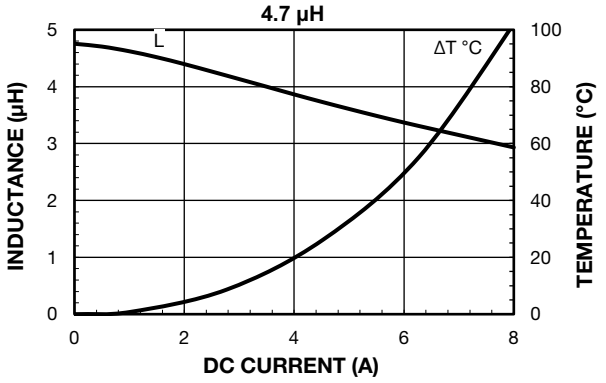
IHLD-2525GG-5A	22 µH	ER	e3
MODEL	INDUCTANCE VALUE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

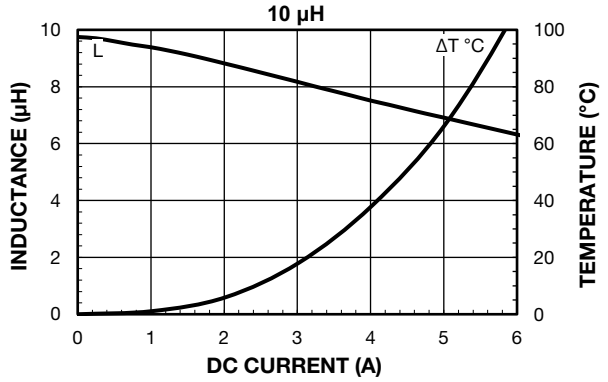
GLOBAL PART NUMBER

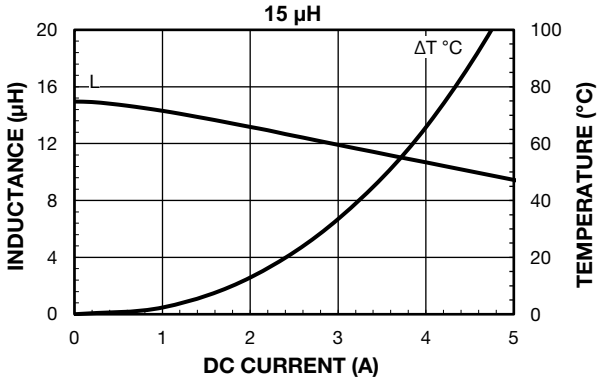
I H L D	2 5 2 5 G G	E R	2 2 0	M	5 A
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOLERANCE	SERIES
		ER = tape and reel	**220** = 22 µH	**M** = 20 %	

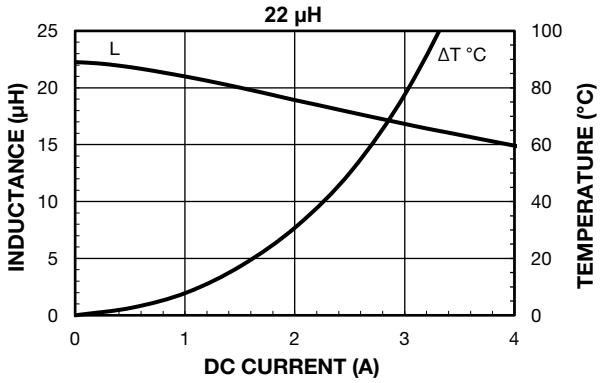
PERFORMANCE GRAPHS



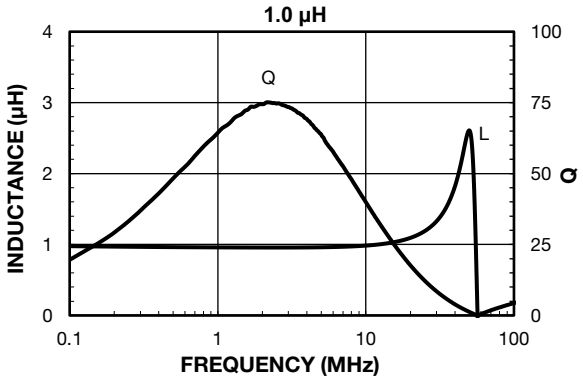


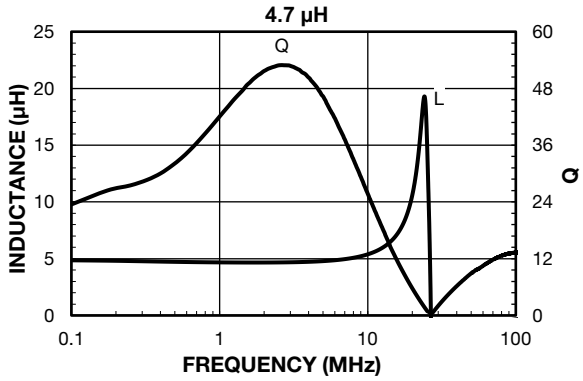


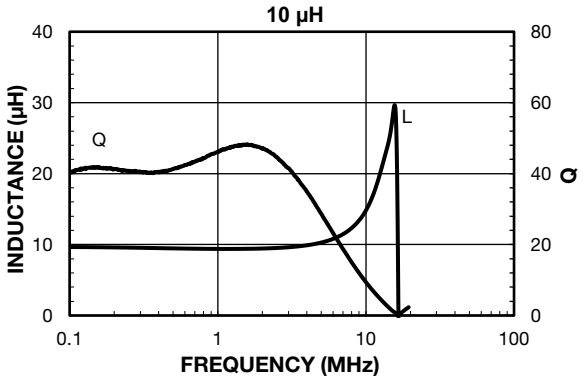


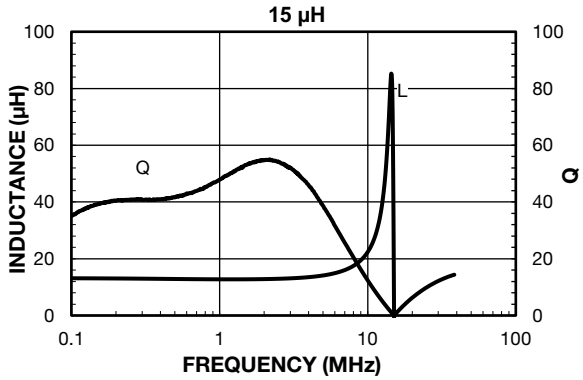


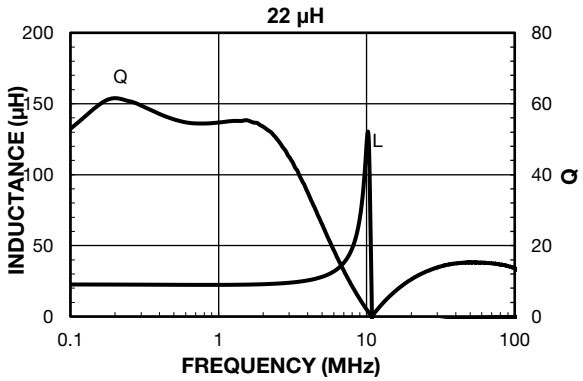
PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY











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