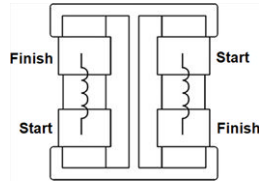
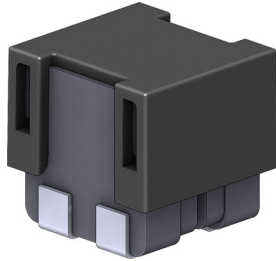


## High Current, Dual Inductor



### 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
- **Patent pending**
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

 AUTOMOTIVE  
GRADE

**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

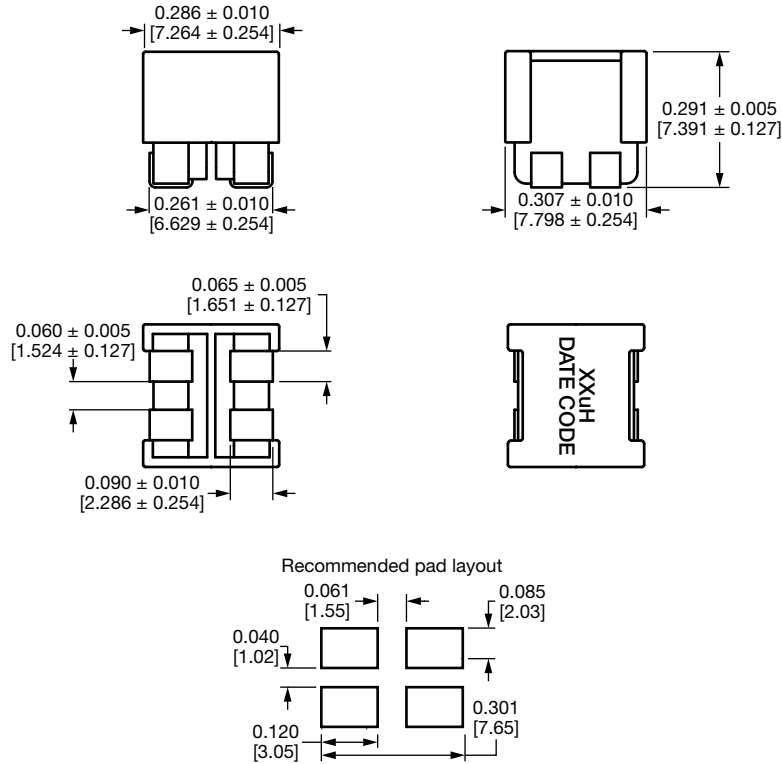
PART NUMBER	L <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(1)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(2)</sup>	SRF TYP. (MHz)
IHLD2525GGER1R0M5A	1.0	7.4	7.95	13.0	12.3	56.7
IHLD2525GGER4R7M5A	4.7	35.7	38.20	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
- <sup>(1)</sup> DC current (A) that will cause an approximate ΔT of 40 °C  
<sup>(2)</sup> DC current (A) that will cause L<sub>0</sub> to drop approximately 20 %



**DIMENSIONS** in inches [millimeters]



**DESCRIPTION**

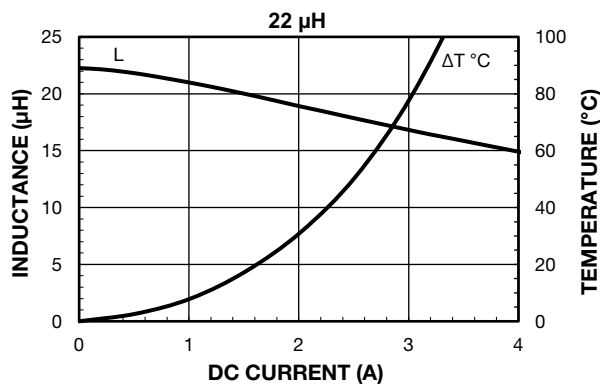
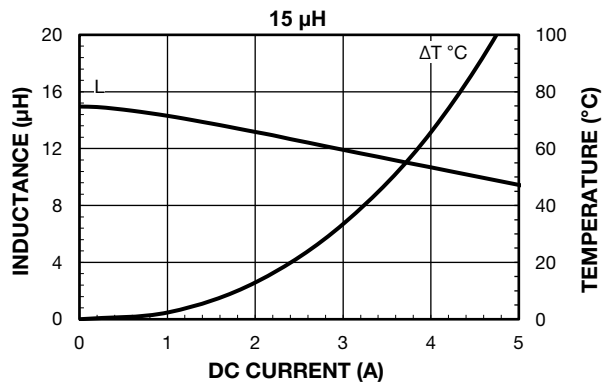
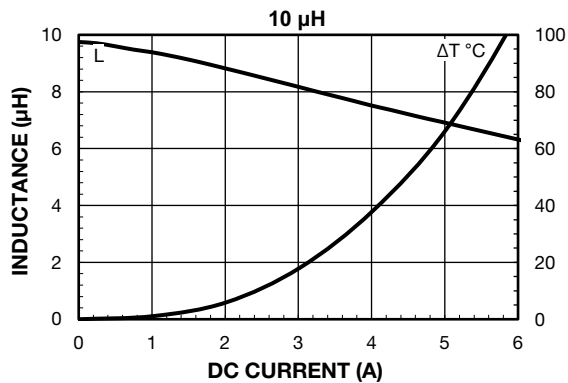
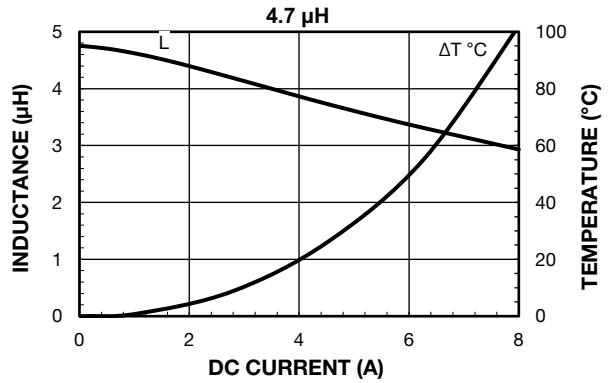
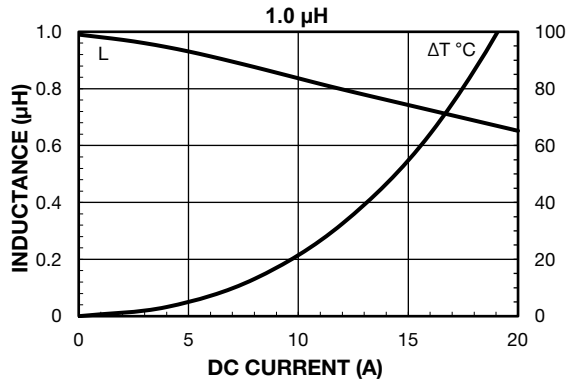
<b>IHLD-2525GG-5A</b> MODEL	<b>22 μH</b> INDUCTANCE VALUE	<b>ER</b> PACKAGE CODE	<b>e3</b> JEDEC® LEAD (Pb)-FREE STANDARD
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**GLOBAL PART NUMBER**



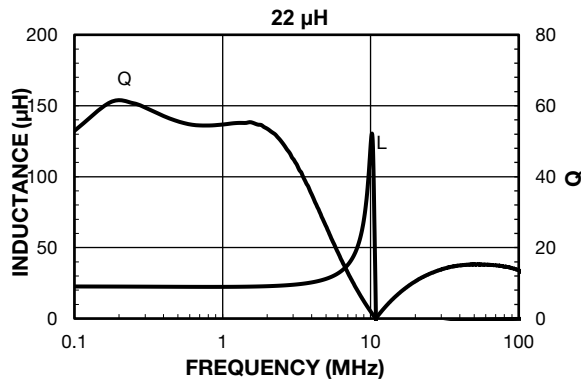
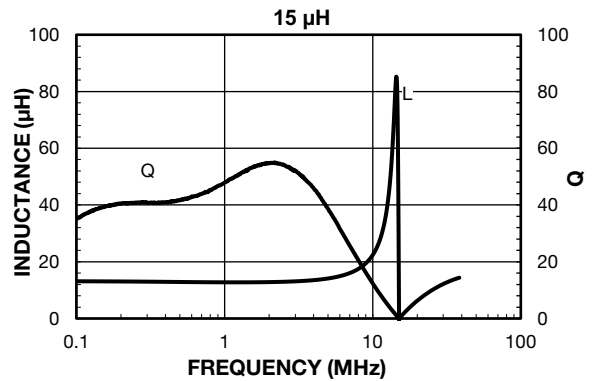
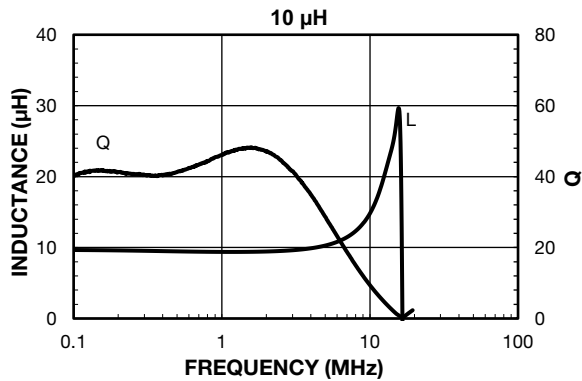
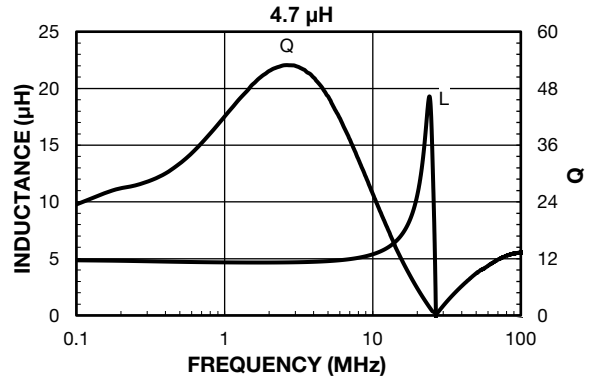
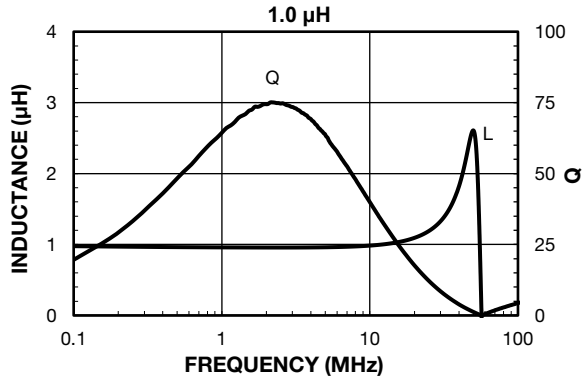


PERFORMANCE GRAPHS





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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