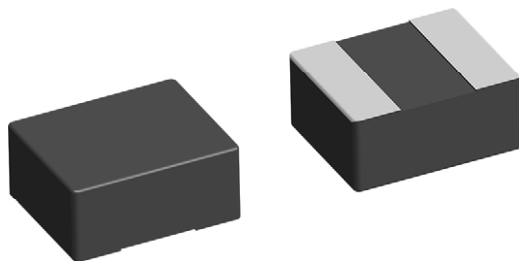


Commercial Power Inductor, Low DCR



FEATURES

- 3.2 mm x 2.5 mm x 1.2 mm SMD package
- Handles high transient current spikes without saturation
- Magnetically shielded composite construction
- Bottom plated terminals allow for smaller pad layout for compact board spacing
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
[5-2008]

LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

APPLICATIONS

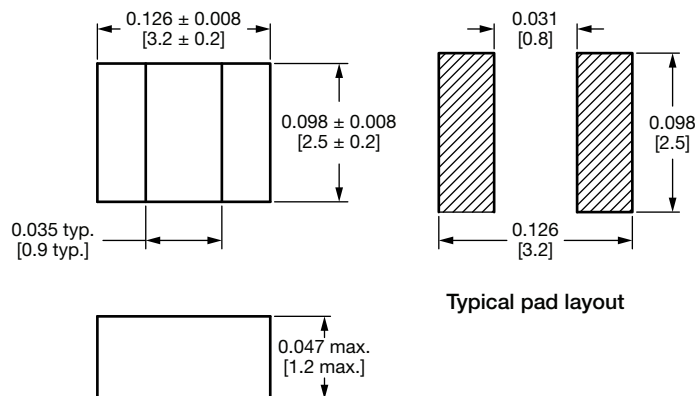
- SSD modules
- DC/DC converter for CPU
- Noise suppression and filtering
- Data networking and storage systems

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L ₀ INDUCTANCE ± 20 % AT 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)	
					20 % DROP ⁽²⁾	30 % DROP ⁽³⁾
IHLL1210ABEZR10M1Z	0.10	3.0	6.0	14	16.5	19.0
IHLL1210ABEZR22M1Z	0.22	6.6	10.0	9.2	9.0	11.5
IHLL1210ABEZR47M1Z	0.47	14.0	19.0	7.5	6.0	8.6
IHLL1210ABEZ1R0M1Z	1.0	26.0	30.0	5.3	4.5	6.6
IHLL1210ABEZ2R2M1Z	2.2	42.0	50.0	3.8	4.0	5.0
IHLL1210ABEZ3R3M1Z	3.3	75.0	95.0	2.9	3.0	3.7
IHLL1210ABEZ4R7M1Z	4.7	115.0	135.0	2.3	2.5	2.9

Notes

- All test data is referenced to 25 °C ambient
 - Test condition: 1 MHz, 1 V
 - Operating temperature range -55 °C to +125 °C
 - Rated operating voltage (across inductor) = 30 V
 - The part temperature (ambient + temp. rise) should not exceed 125 °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
- ⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C
⁽²⁾ DC current (A) that will cause L₀ to drop approximately 20 %
⁽³⁾ DC current (A) that will cause L₀ to drop approximately 30 %

DIMENSIONS in inches [millimeters]


No part marking

DESCRIPTION

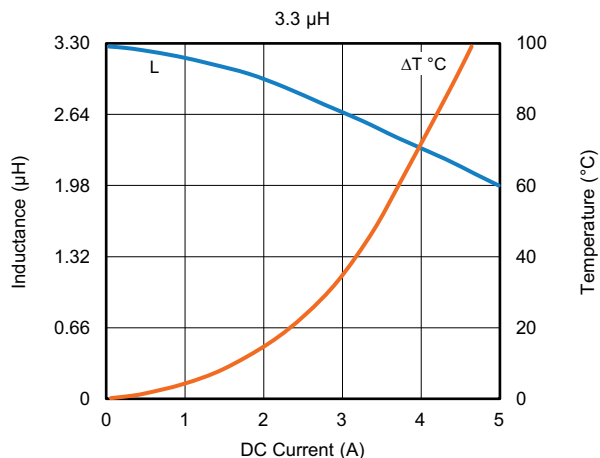
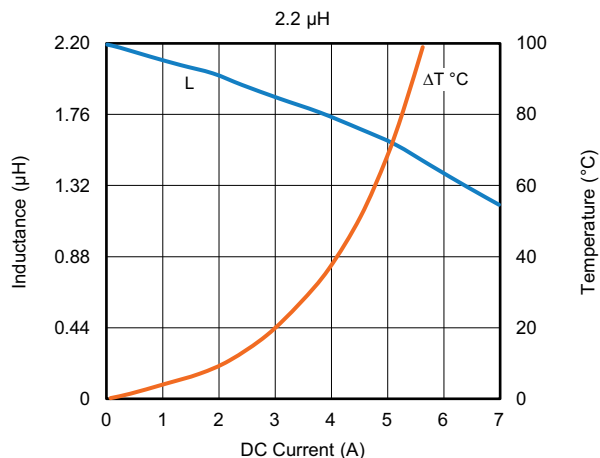
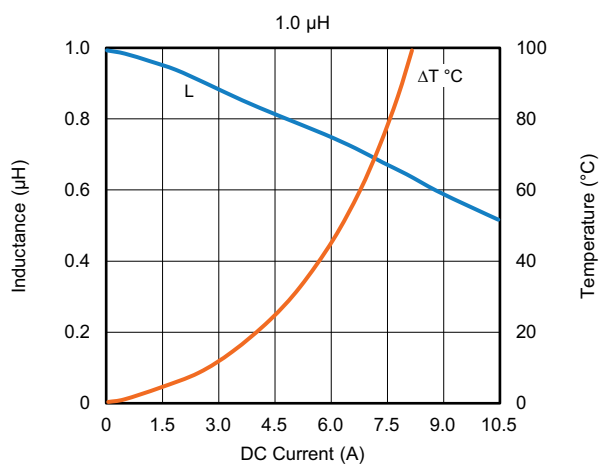
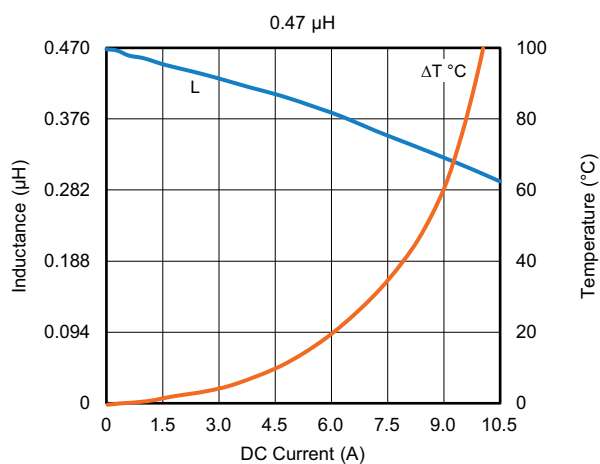
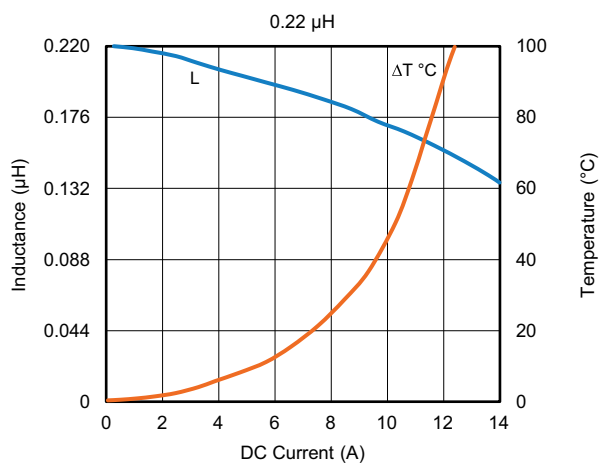
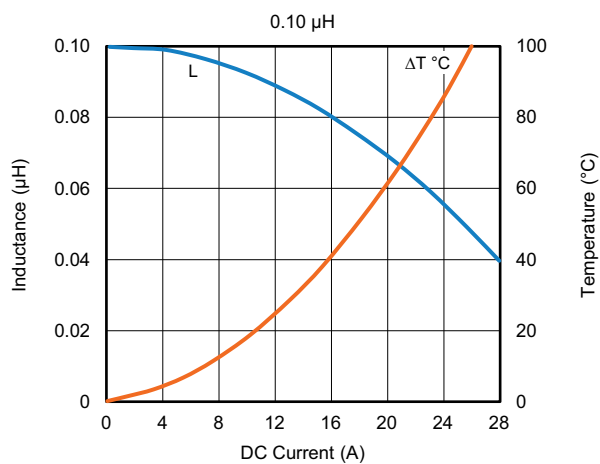
IHLL1210AB-1Z	0.47 μH	± 20 %	EZ	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I H L L	1 2 1 0 A B	E Z	3 R 3	M	1 Z
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	SERIES
		EZ = tape and reel	3R3 = 3.3 μ H	M = ± 20 %	

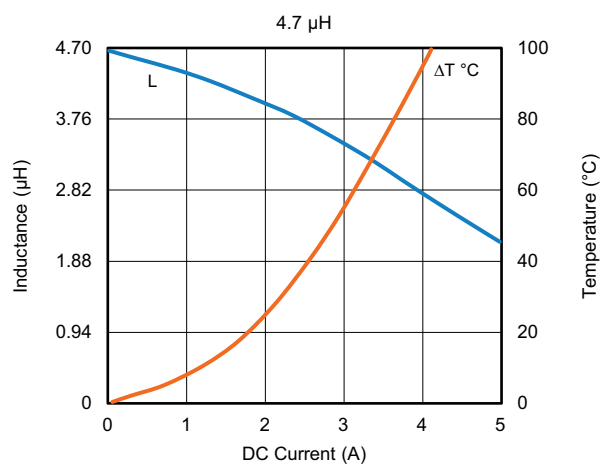


PERFORMANCE GRAPHS





PERFORMANCE GRAPHS





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