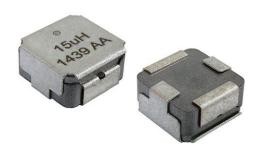


IHLE® High Current Inductors With E-Field Shield



LINKS TO ADDITIONAL RESOURCES



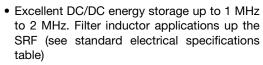
STANDARD ELECTRICAL SPECIFICATIONS								
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25°C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)			
0.22	1.68	1.86	36.0	32.0	117			
0.47	2.38	2.55	27.0	19.0	77			
0.68	3.30	3.53	21.5	16.2	51			
1.0	4.58	4.90	19.0	16.2	45			
2.2	11.70	12.50	11.5	14.0	32			
3.3	15.40	16.48	10.6	11.8	23			
4.7	26.60	28.46	7.2	9.1	18			
5.6	29.60	31.67	6.9	9.0	18			
10	50.00	53.50	5.1	5.2	13			
15	62.00	66.34	4.8	3.6	10			
22	103.00	110.21	3.7	3.8	9			
33	149.00	159.43	3.1	3.2	6.1			

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, PWB 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 (V1) = 50 V
- Rated isolation voltage, inductor lead to shield (V2) = 50 V
- (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 %

FEATURES

- High temperature, up to 155 °C
- Integrated E-Shield for maximum EMI reduction (1)





AUTOMOTIVE

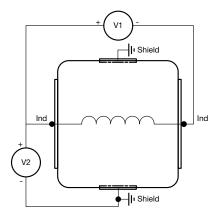
- Integrated E-Field shield eliminates need for separate shielding
- 20 dB E-Field reduction at 1 cm
 - Measured vertically from top center of device
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Coplanarity of the 4 terminals ≤ 100 µm
- AEC-Q200 qualified
- IHLE design; PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

(1) Maximum E-Field reduction is realized when the IHLE shield is connected to ground

APPLICATIONS

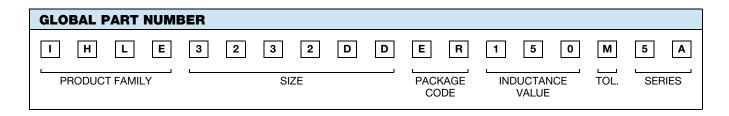
- Engine and transmission control units
- Diesel injection drivers
- DC/DC converters for entertainment / navigation systems
- · Noise suppression for motors
 - Windshield wipers
 - Power seats
 - Power mirrors
 - Heating and ventilation blower
 - HID lighting
- LED drivers

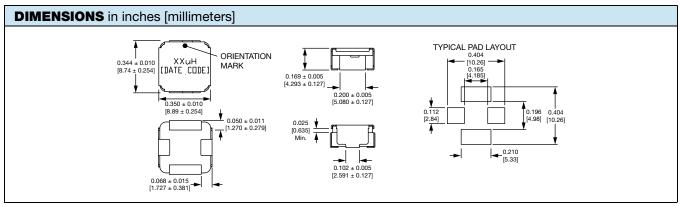


PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.

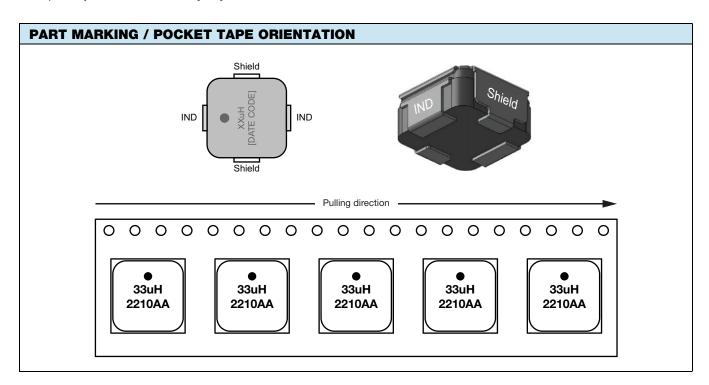
DESCRIPTION							
IHLE-3232DD-5A	15 μΗ	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			



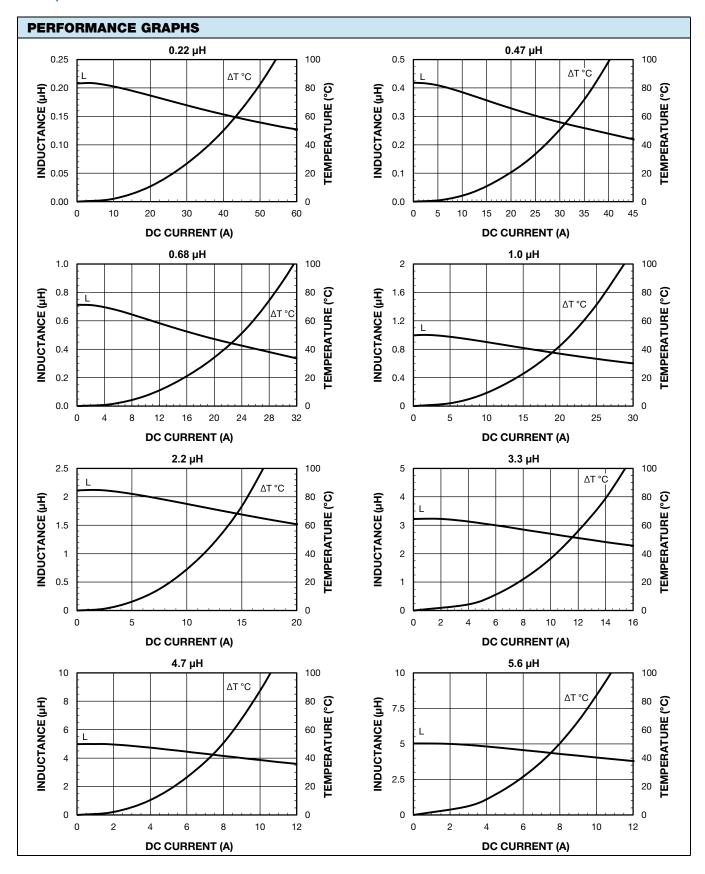


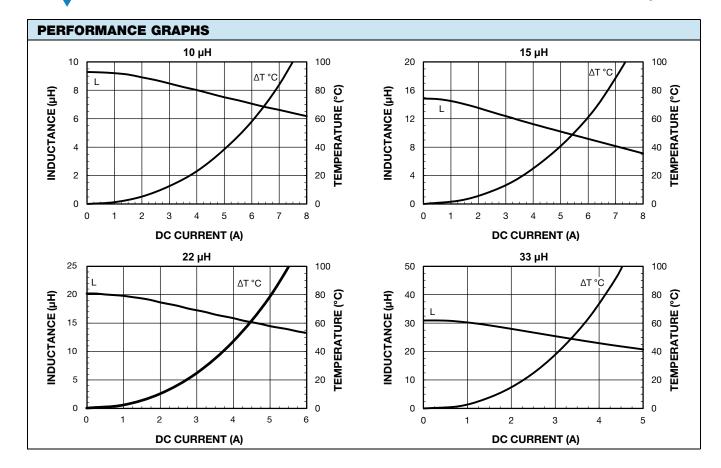
Notes

- Dot indicate the coil termination
- Coplanarity of 4 terminals: 0.004" [0.10]

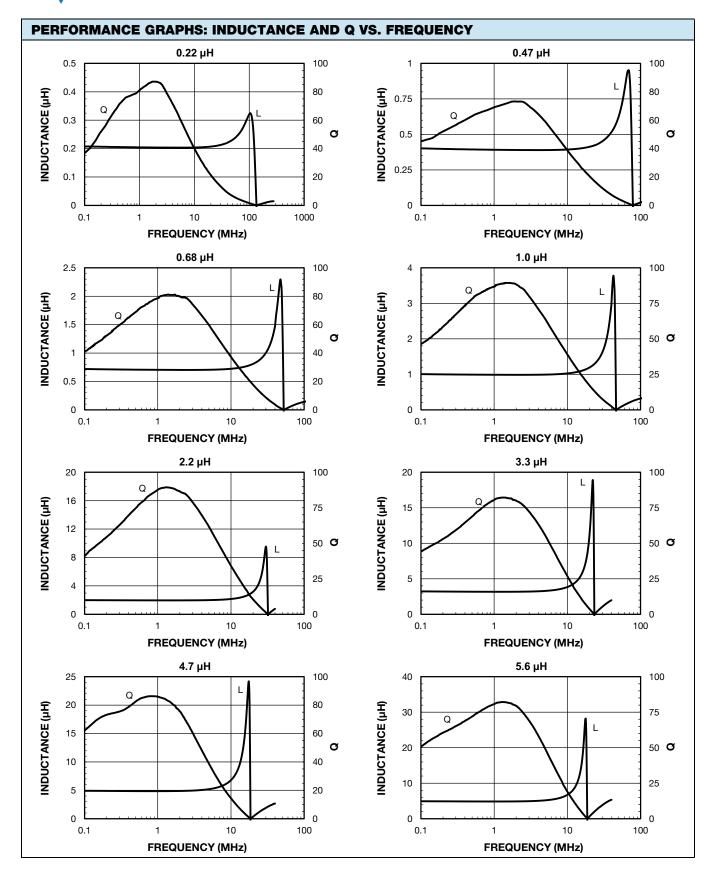


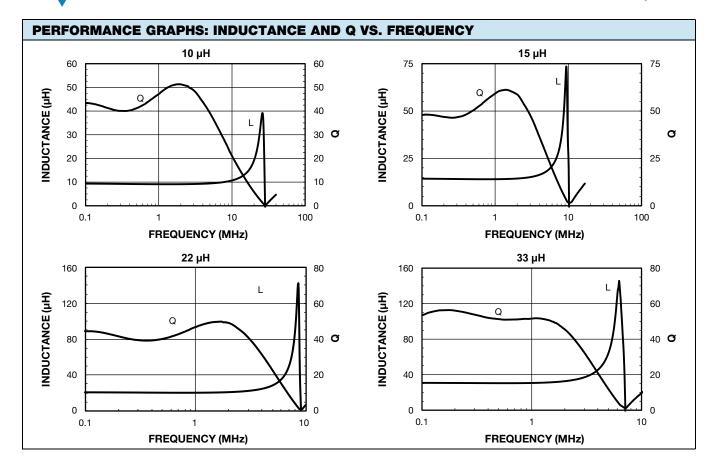














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