

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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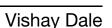
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Low Profile, High Current Inductors



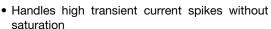
STANDARD ELECTRICAL SPECIFICATIONS						
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR 25 °C (mΩ)		HEAT RATING CURRENT DC I _{DC} (A) ⁽³⁾		SATURATION CURRENT DC I _{SAT} (A) ⁽⁴⁾	
	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
1.0	63	76	2.60	2.34	2.90	2.60
1.5	65	78	1.90	1.71	1.80	1.62
2.2	89	107	1.70	1.53	1.60	1.44
3.3	109	131	1.55	1.40	1.25	1.13
4.7	166	199	1.30	1.17	1.00	0.90
6.8	249	299	1.05	0.95	0.85	0.75
10.0	365	438	0.85	0.77	0.75	0.68
15.0	672	807	0.72	0.64	0.58	0.52
22.0	708	850	0.60	0.55	0.47	0.43
33.0	1360	1632	0.50	0.45	0.38	0.34
47.0	1750	2275	0.30	0.27	0.33	0.30

Notes

- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +125 °C
- (3) DC current (A) that will cause an approximate ΔT of 40 °C
- (4) DC current (A) that will cause L₀ to drop approximately 30 %
- (5) The part temperature (ambient + temp. rise) should not exceed 125 °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

- Shielded construction
- Frequency range up to 5.0 MHz

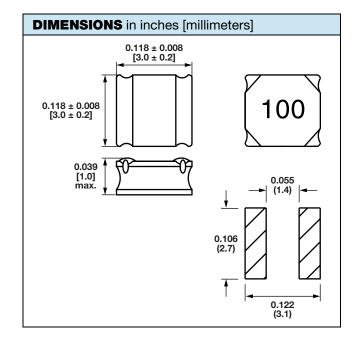


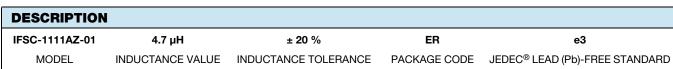


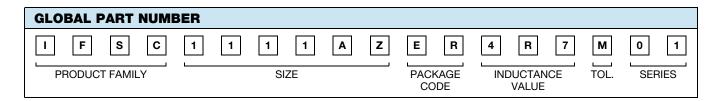
 Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- PDA/notebook/desktop/server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for field programmable gate array (FPGA)









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Vishay

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