



Low Profile, High Current Inductors



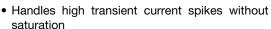
STANDARD ELECTRICAL SPECIFICATIONS				
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽³⁾	SATURATION CURRENT DC TYP. (A) (4)
1.0	55	68	2.00	1.50
1.5	65	75	1.45	1.35
2.2	90	105	1.30	1.10
3.3	130	150	1.20	0.90
4.7	170	200	1.00	0.75
6.8	200	230	0.90	0.65
10.0	300	340	0.80	0.52
15.0	500	570	0.65	0.40
22.0	650	750	0.50	0.35
33.0	1000	1250	0.40	0.30
47.0	1800	2050	0.35	0.235

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

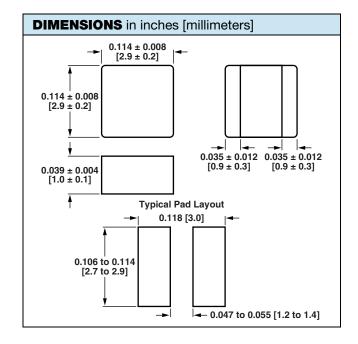


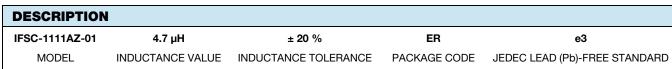


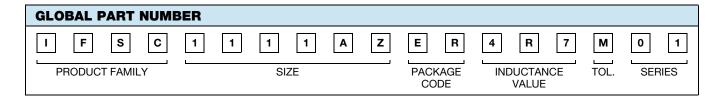
 Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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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