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Vishay Dale

Low Profile, High Current Inductors



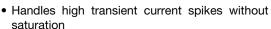
STANDARD ELECTRICAL SPECIFICATIONS				
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽³⁾	SATURATION CURRENT DC TYP. (A) ⁽⁴⁾
0.47	49	59	2.60	2.85
1.0	96	115	1.60	1.88
1.5	143	172	1.40	1.63
2.2	196	236	1.30	1.40
3.3	247	297	1.05	1.00
4.7	331	398	0.90	0.85
6.8	623	748	0.60	0.80
10.0	1108	1330	0.45	0.62
22.0	2367	2840	0.30	0.43

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 $^{\circ}$ 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

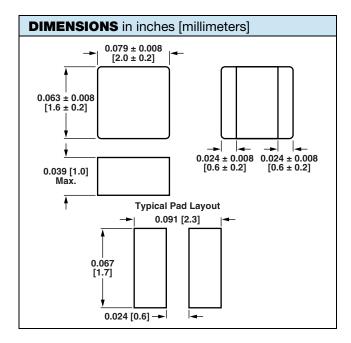


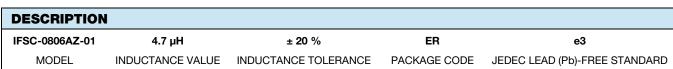


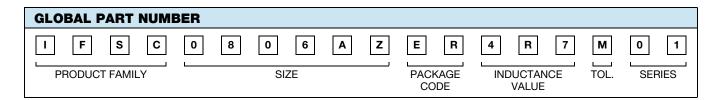
Material categorization: For definitions of FREE compliance please see www.vishay.com/doc?99912

APPLICATIONS

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









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