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Low Profile, High Current Inductors



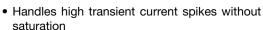
STANDARD ELECTRICAL SPECIFICATIONS						
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (µH)	DCR 25 °C (mΩ)		HEAT RATING CURRENT DC I _{DC} (A) ⁽³⁾		SATURATION CURRENT DC I _{SAT} (A) ⁽⁴⁾	
(μΠ)	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
0.47	47	57	2.60	2.34	2.85	2.56
1.0	87	107	1.70	1.50	2.00	1.80
1.5	137	164	1.60	1.44	1.65	1.50
2.2	192	230	1.35	1.22	1.45	1.31
3.3	243	292	1.05	0.95	1.05	0.95
4.7	322	387	0.95	0.85	0.95	0.80
6.8	610	732	0.62	0.56	0.80	0.72
10	932	1119	0.47	0.42	0.62	0.55
22	2365	2838	0.37	0.33	0.45	0.40

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



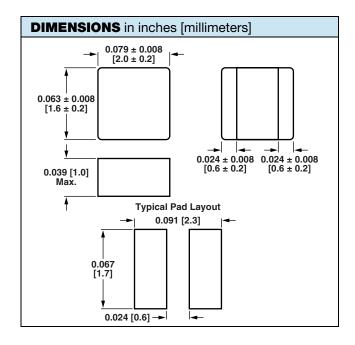
Material categorization: for definitions of FREE compliance please see www.vishay.com/doc?99912

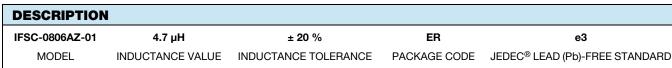
Pb-free

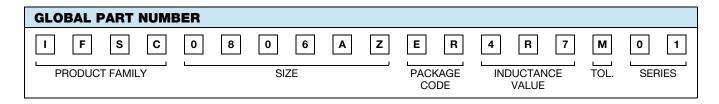
ROHS COMPLIANT HALOGEN

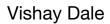
APPLICATIONS

- 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)

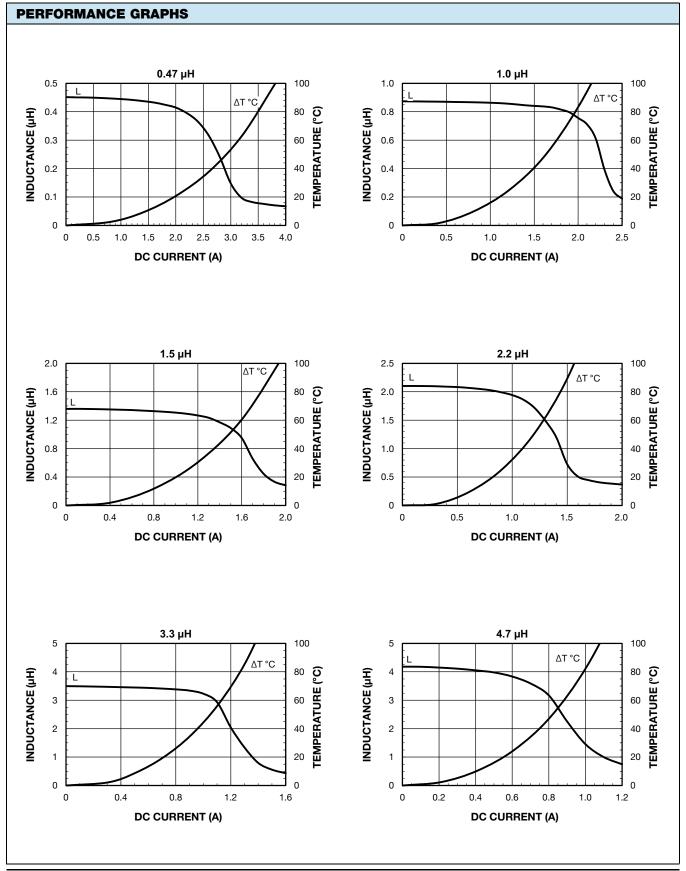




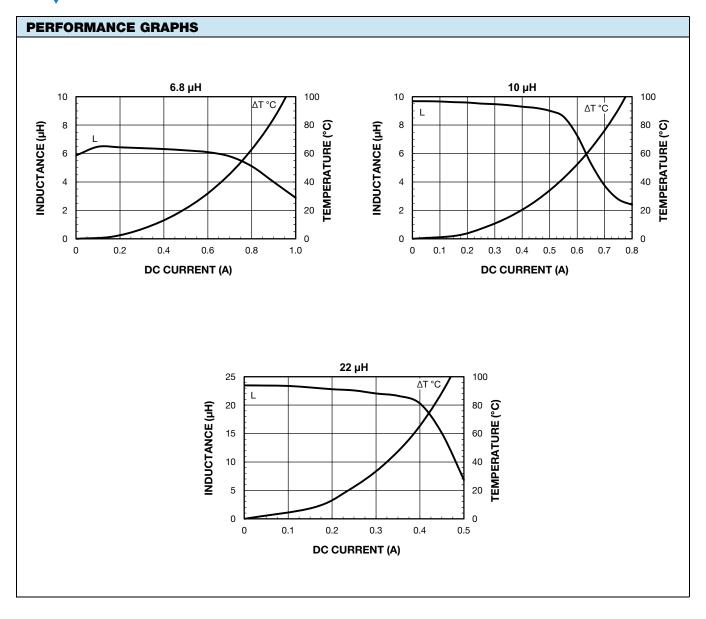




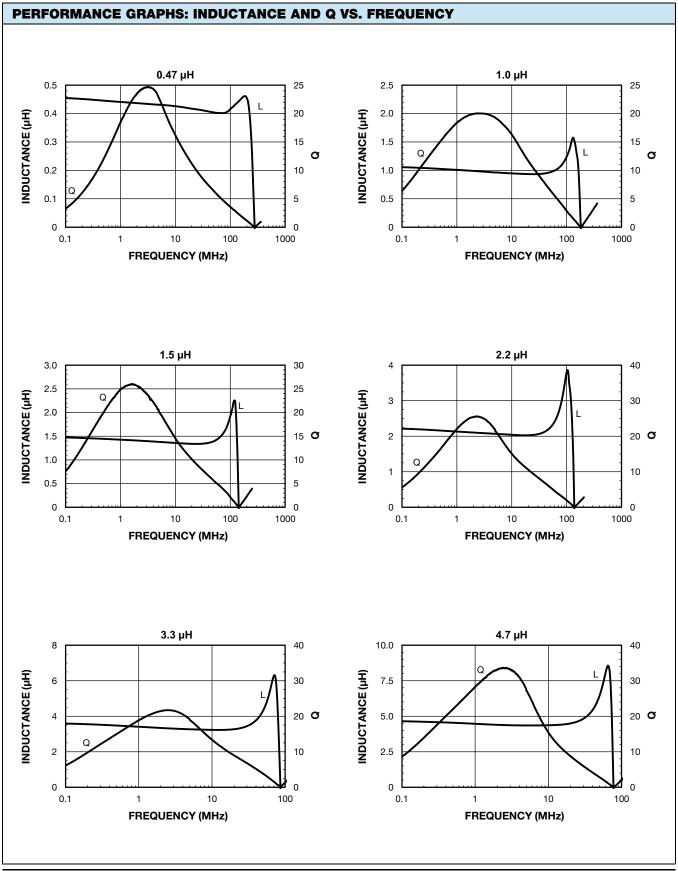




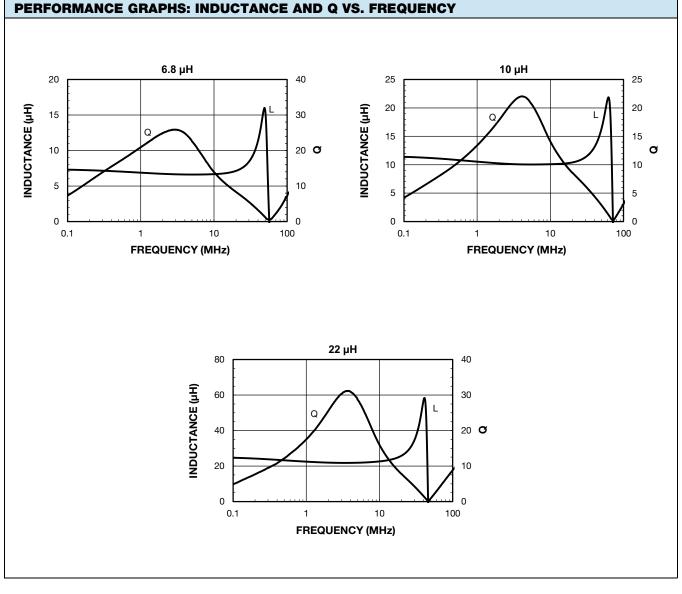
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