

Low Profile, High Current Inductors



FEATURES

- Shielded construction
- Frequency range up to 5.0 MHz
- Handles high transient current spikes without saturation
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE

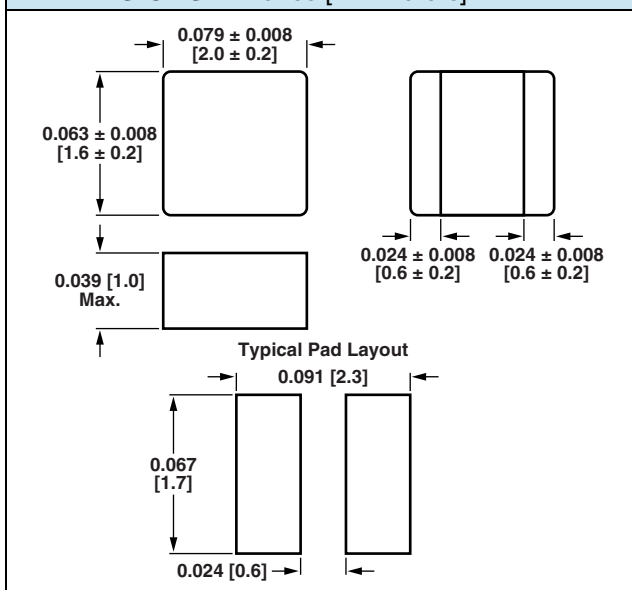
STANDARD ELECTRICAL SPECIFICATIONS

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.
0.47	49	59	2.60	2.34	2.85	2.56
1.0	96	115	1.60	1.44	1.88	1.69
1.5	143	172	1.40	1.26	1.63	1.46
2.2	196	236	1.30	1.17	1.40	1.26
3.3	247	297	1.05	0.94	1.00	0.90
4.7	331	398	0.90	0.81	0.85	0.76
6.8	623	748	0.60	0.54	0.80	0.72
10.0	1108	1330	0.45	0.40	0.62	0.55
22.0	2367	2840	0.37	0.33	0.43	0.38

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.

DIMENSIONS in inches [millimeters]



DESCRIPTION

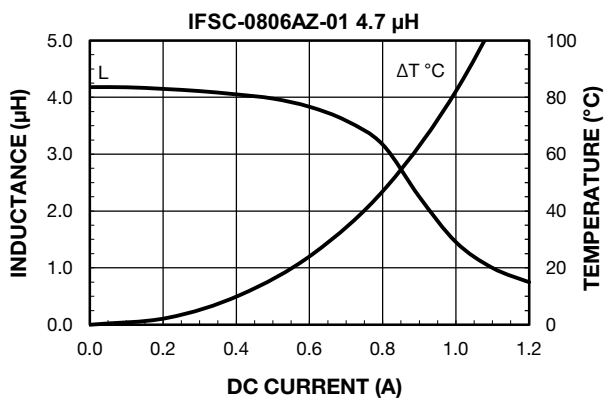
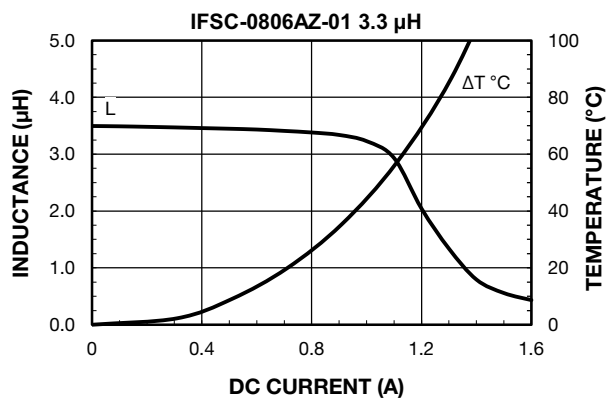
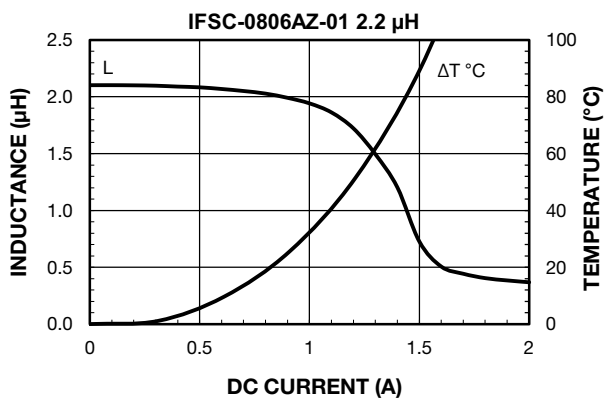
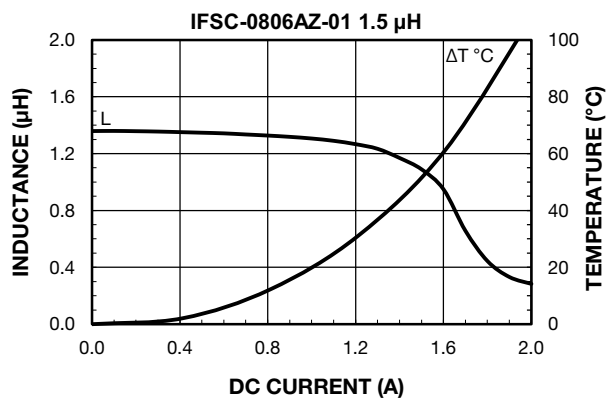
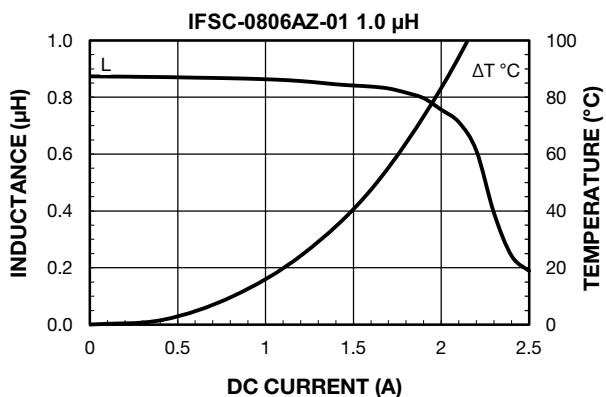
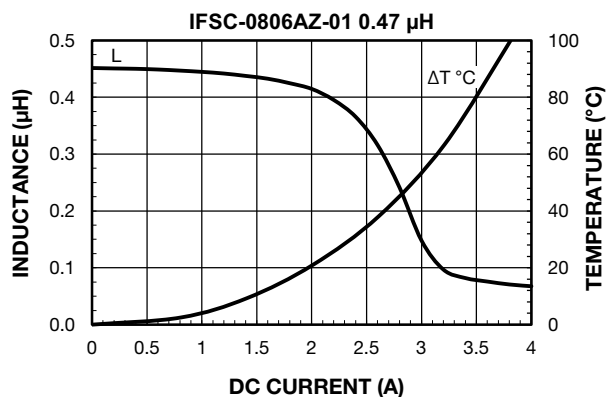
IFSC-0806AZ-01	4.7 μH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	F	S	C	0	8	0	6	A	Z	E	R	4	R	7	M	0	1
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE		TOL.	SERIES				

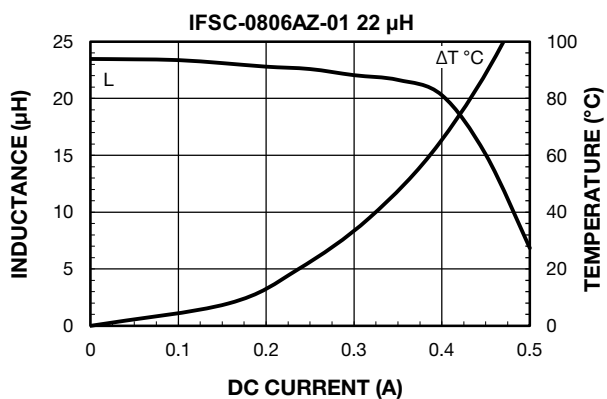
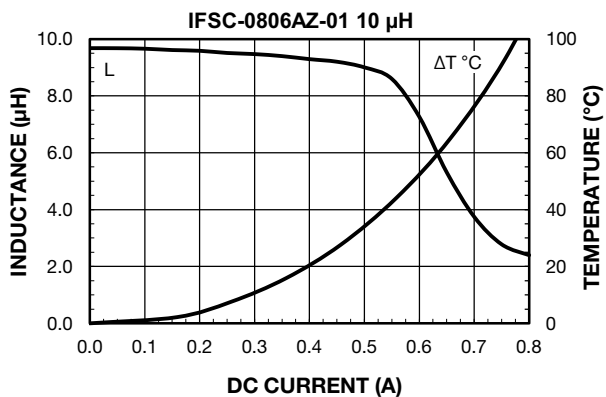
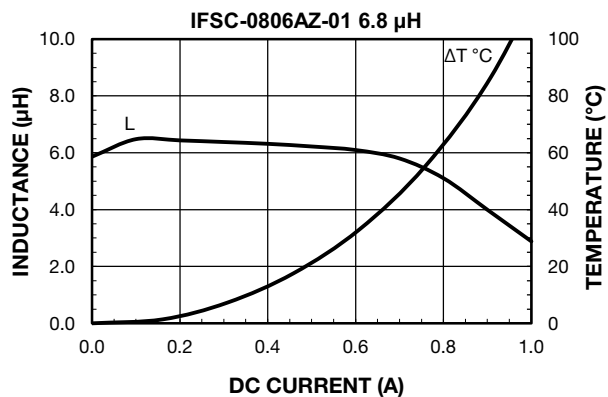


PERFORMANCE GRAPHS



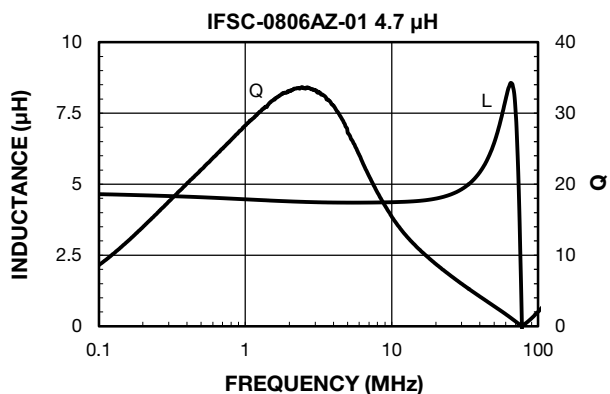
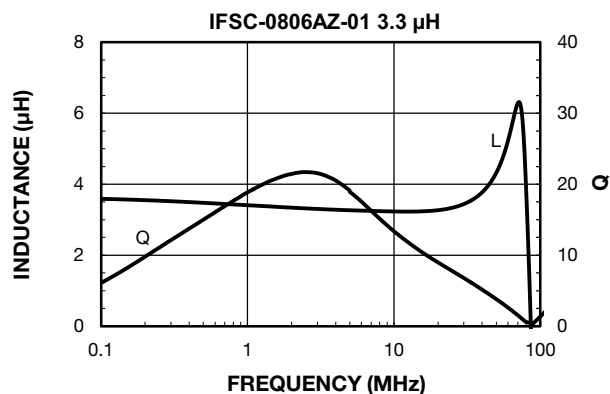
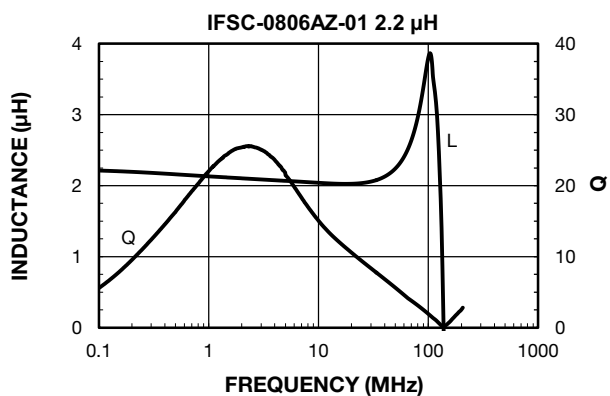
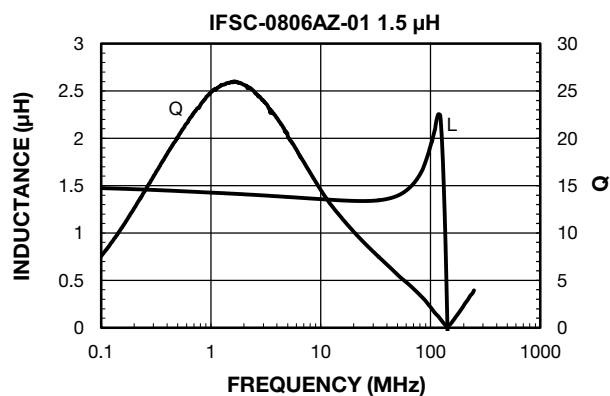
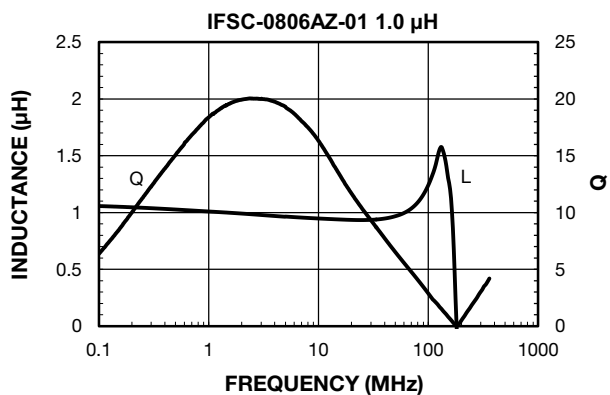
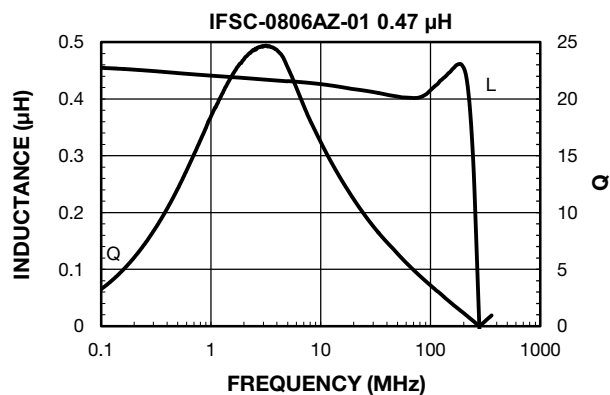


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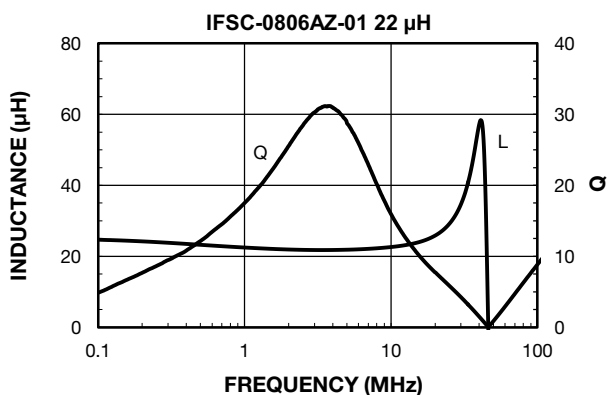
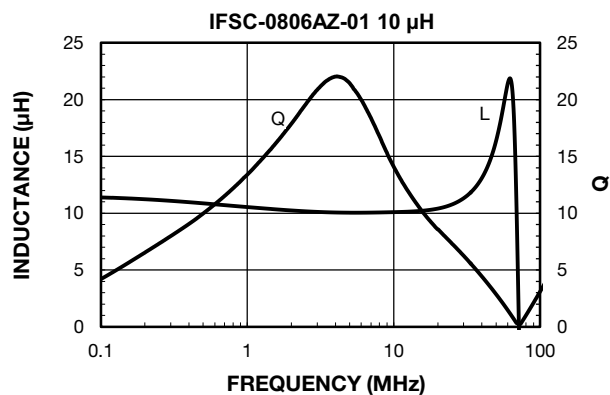
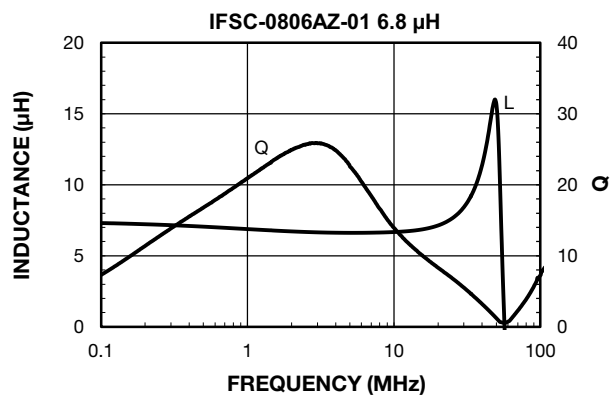


PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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