

IHLP3232DZERR22M5A Datasheet

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DiGi Electronics Part Number	IHLP3232DZERR22M5A-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	IHLP3232DZERR22M5A
Description	FIXED IND 220NH 36A 1.86MOHM SMD
Detailed Description	220 nH Shielded Molded Inductor 36 A 1.86mOhm Max Nonstandard



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Purchase and inquiry

Manufacturer Product Number:

IHLP3232DZERR22M5A

Series:

IHLP-3232DZ-5A

Type:

Molded

Inductance:

220 nH

Current Rating (Amps):

36 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

AEC-Q200

Inductance Frequency - Test:

100 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.322" L x 0.322" W (8.18mm x 8.18mm)

Manufacturer:

Vishay Dale

Product Status:

Active

Material - Core:

-

Tolerance:

±20%

Current - Saturation (Isat):

32A

DC Resistance (DCR):

1.86mOhm Max

Frequency - Self Resonant:

117MHz

Operating Temperature:

-55°C ~ 125°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.157" (4.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

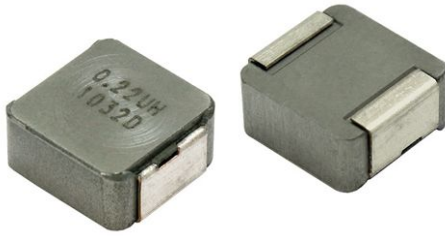


www.vishay.com

IHLP-3232DZ-5A

Vishay Dale

IHLP® Automotive Inductors, High Temperature (155 °C) Series



FEATURES

- Magnetically shielded construction
- Operating temperature up to 155 °C
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- AEC-Q200 qualified
- IHLP design; PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

AUTOMOTIVE GRADE



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

LINKS TO ADDITIONAL RESOURCES



APPLICATIONS

- Engine and transmission control units
- Diesel injection drivers
- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors: windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- LED drivers

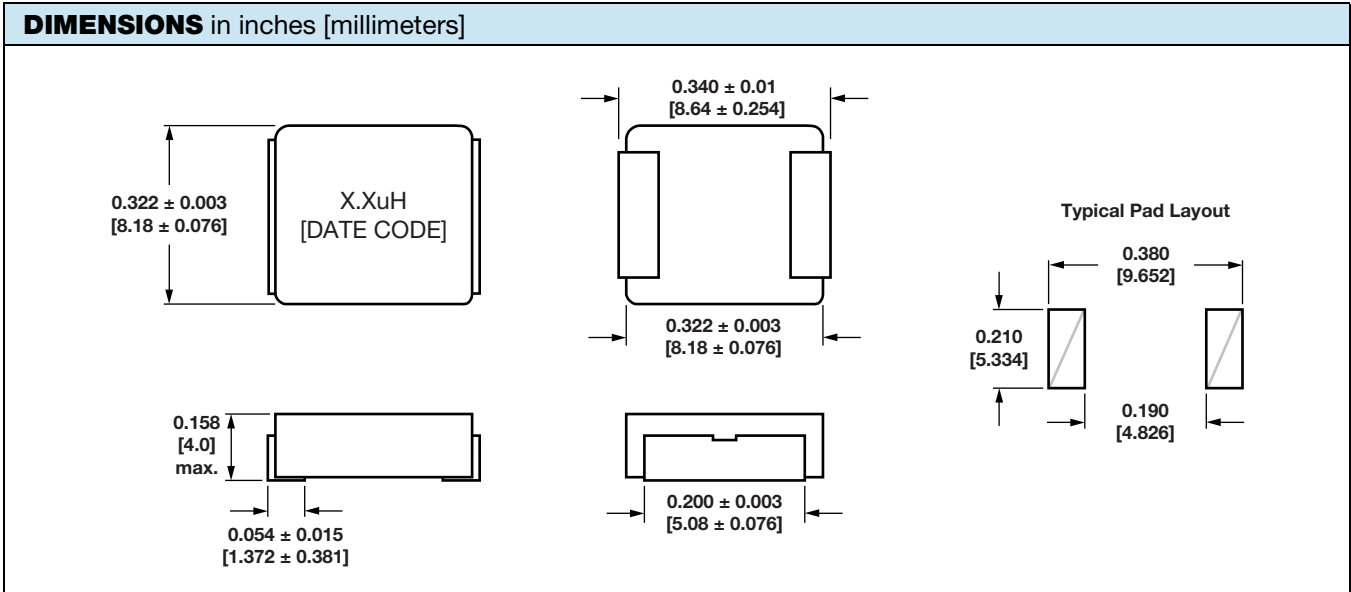
STANDARD ELECTRICAL SPECIFICATIONS							
PART NUMBER	L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (µH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A)		SRF TYP. (MHz)
					20 % DROP ⁽²⁾	30 % DROP ⁽³⁾	
					IHLP3232DZERR22M5A	0.22	
IHLP3232DZERR47M5A	0.47	2.38	2.55	27	19	24	77
IHLP3232DZERR68M5A	0.68	3.3	3.53	21.5	12	17	51
IHLP3232DZERR82M5A	0.82	3.7	4	20	15	22	49
IHLP3232DZER1R0M5A	1.0	4.58	4.9	19	15	22	45
IHLP3232DZER1R5M5A	1.5	6.78	7.25	15.5	14	20	35
IHLP3232DZER2R2M5A	2.2	11.7	12.5	11.5	14	20	32
IHLP3232DZER3R3M5A	3.3	15.4	16.48	10.6	11.8	16	23
IHLP3232DZER4R7M5A	4.7	26.6	28.46	7.2	9.1	12	18
IHLP3232DZER5R6M5A	5.6	29.6	31.67	6.9	9	12	18
IHLP3232DZER6R8M5A	6.8	33.5	35.9	6.8	6.3	9.2	15.3
IHLP3232DZER100M5A	10	50	53.5	5.1	5.2	7	13
IHLP3232DZER150M5A	15	62	66.34	4.8	3.6	4.5	10
IHLP3232DZER220M5A	22	103	110.21	3.7	3.8	5	9
IHLP3232DZER330M5A	33	149	159.43	3.1	3.2	4.2	6.1

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °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
- Rated operating voltage (across inductor) = 75 V
- ⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C
- ⁽²⁾ DC current (A) that will cause L₀ to drop approximately 20 %
- ⁽³⁾ DC current (A) that will cause L₀ to drop approximately 30 %

PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.

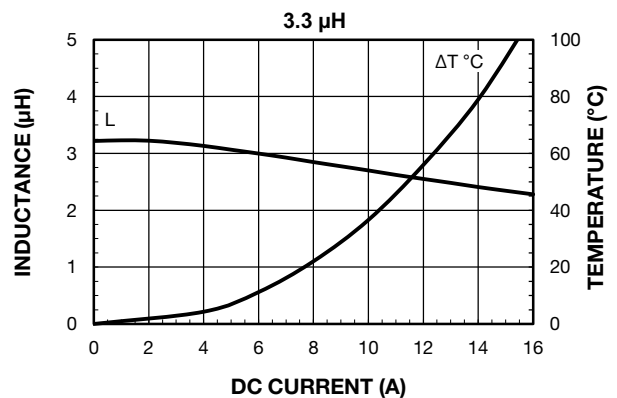
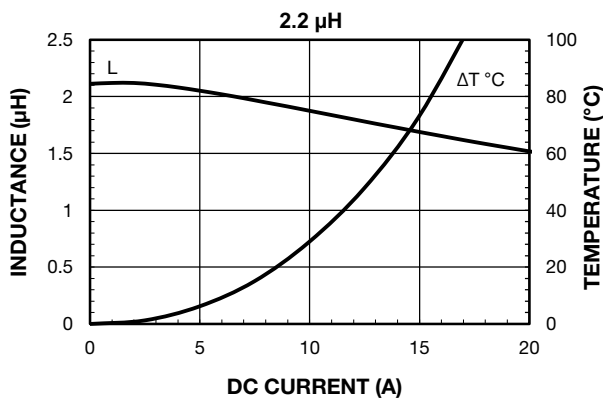
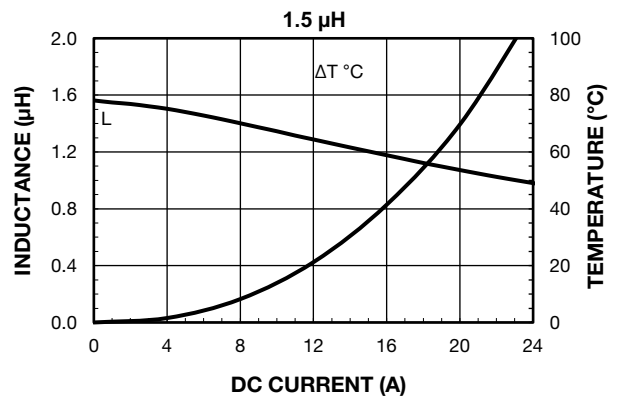
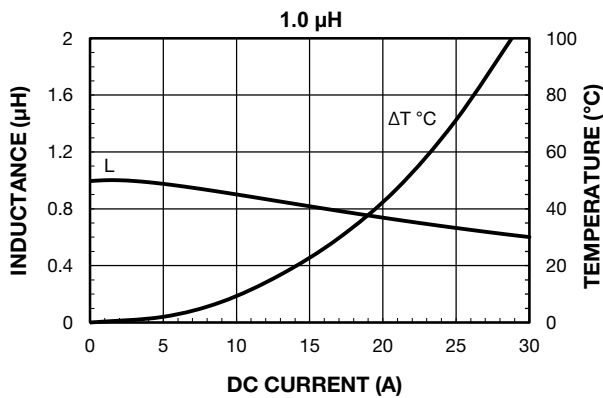
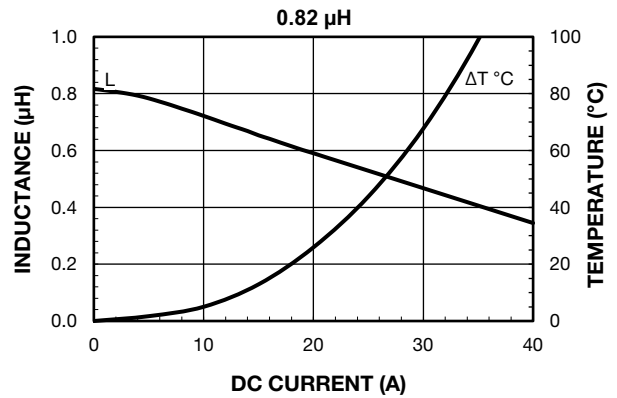
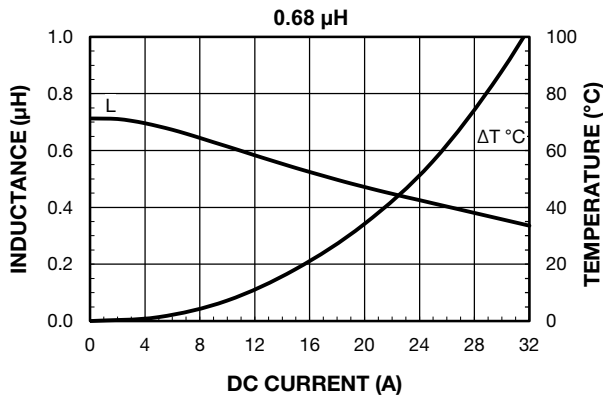
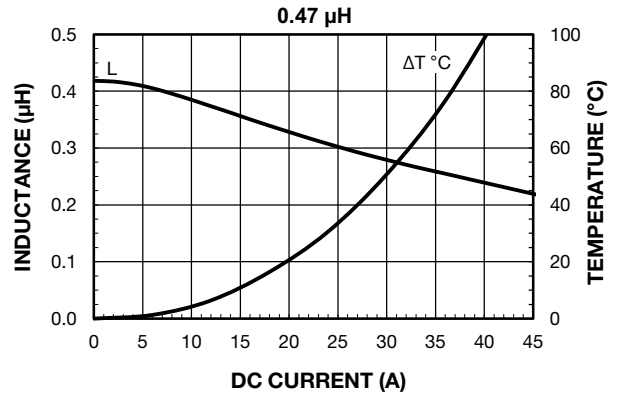
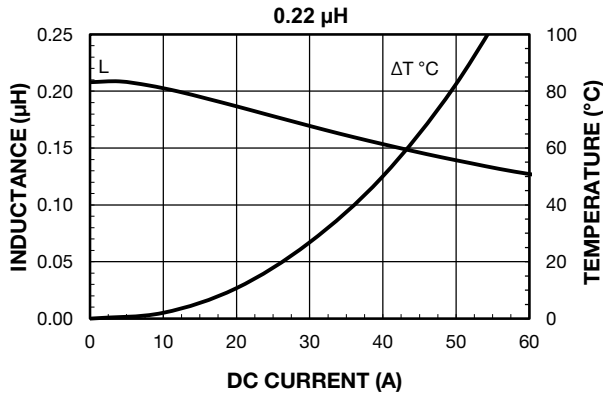


DESCRIPTION					
IHLP-3232DZ-5A	10 μ H	± 20 %	ER	E3	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD	

GLOBAL PART NUMBER					
I H L P	3 2 3 2	D Z	E R	1 0 0	M 5 A
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	SERIES
		ER = tape and reel	100 = 10 μ H	M = ± 20 %	

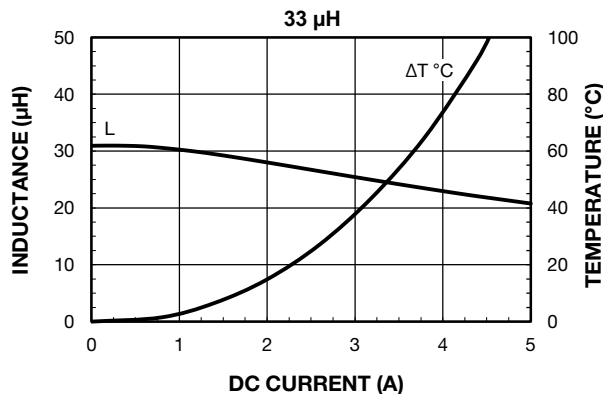
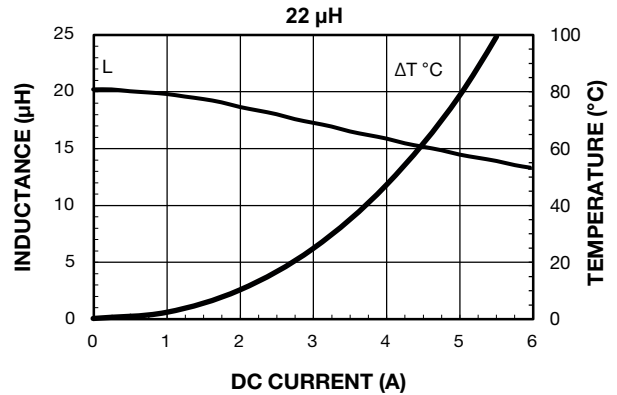
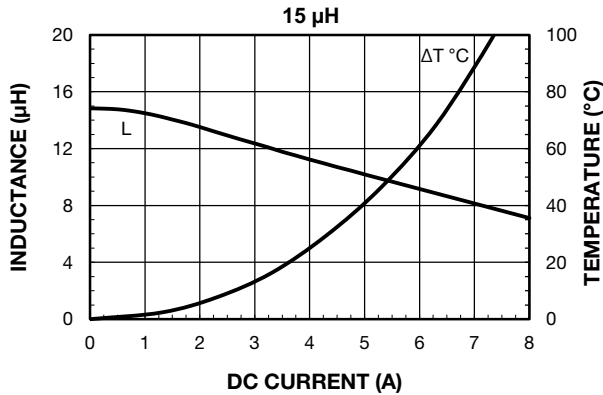
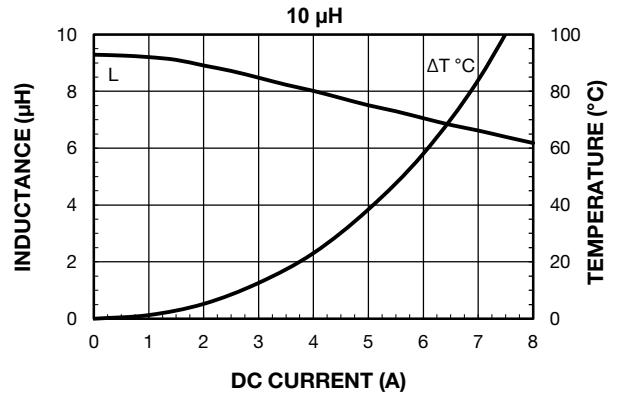
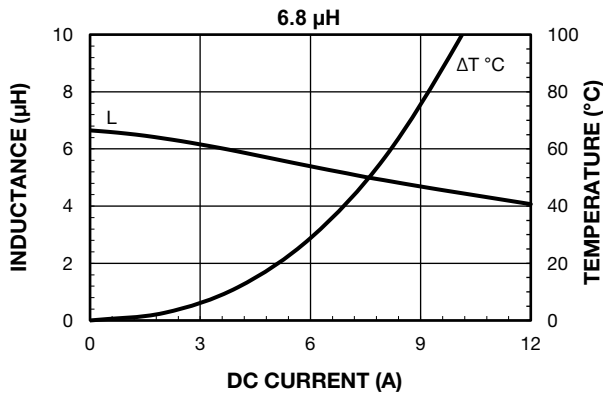
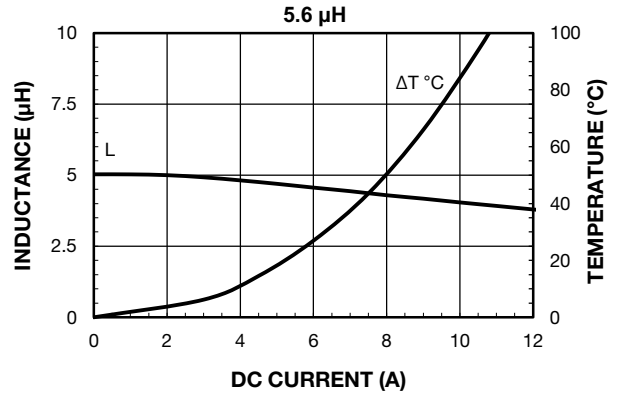
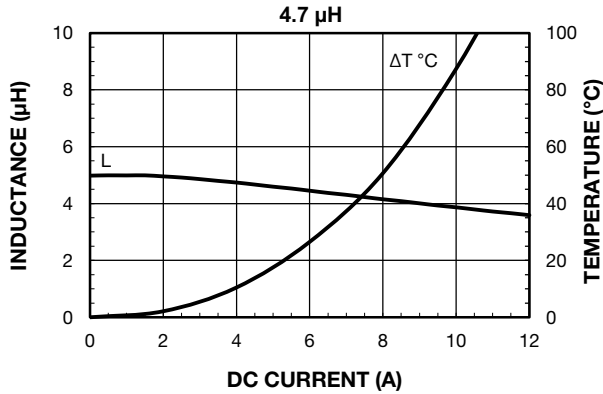


PERFORMANCE GRAPHS



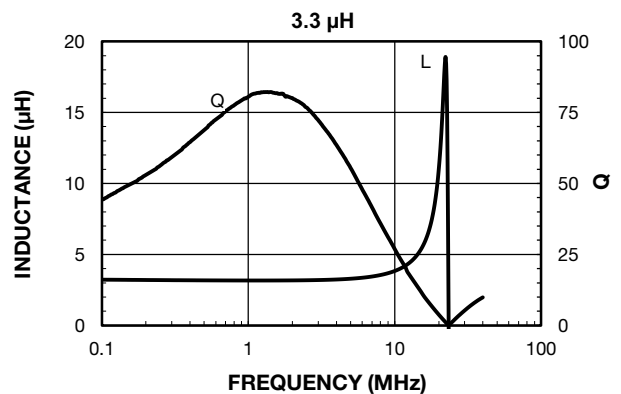
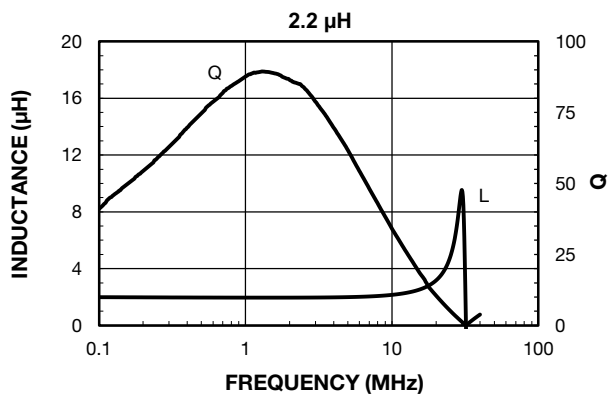
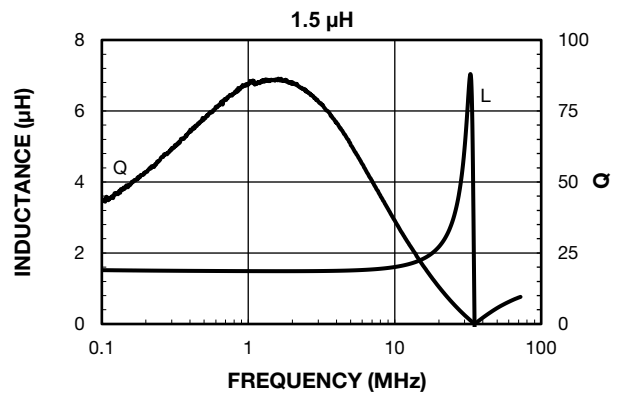
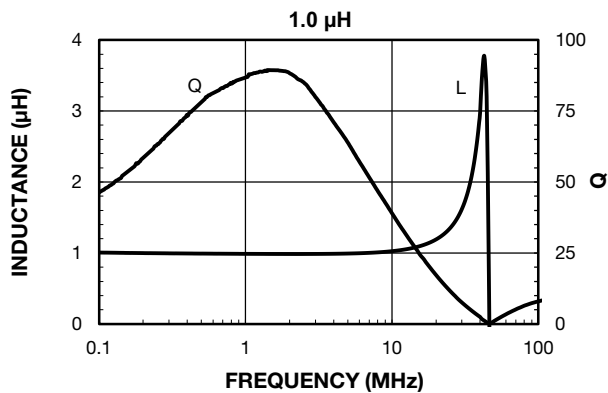
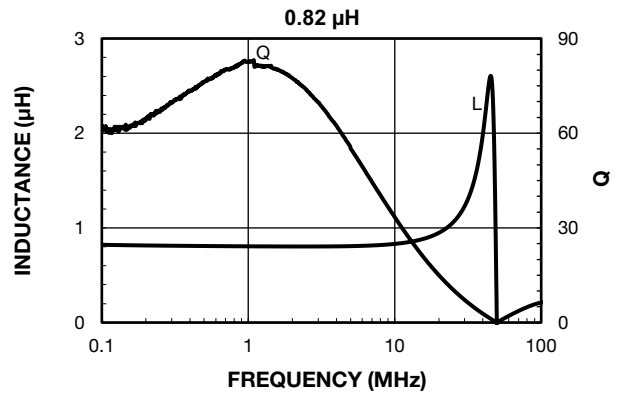
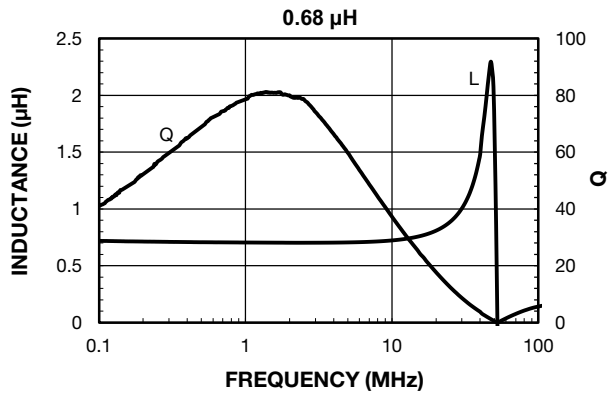
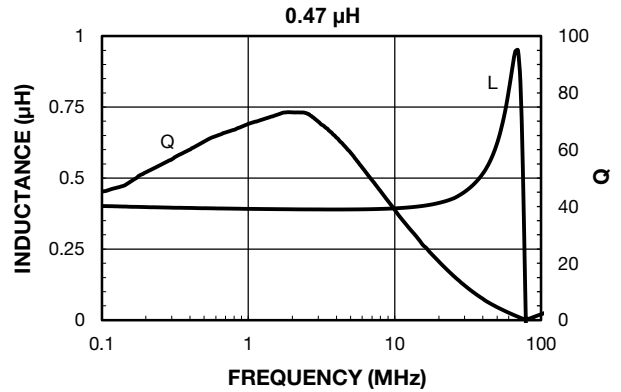
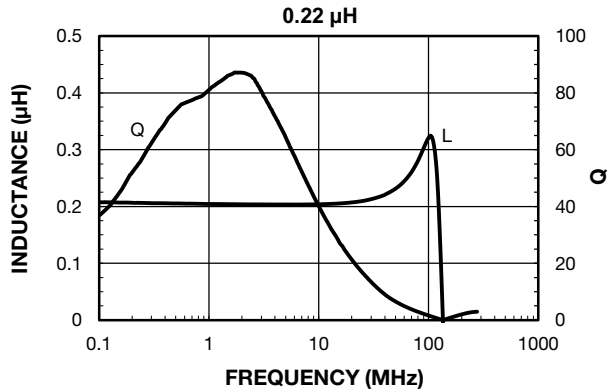


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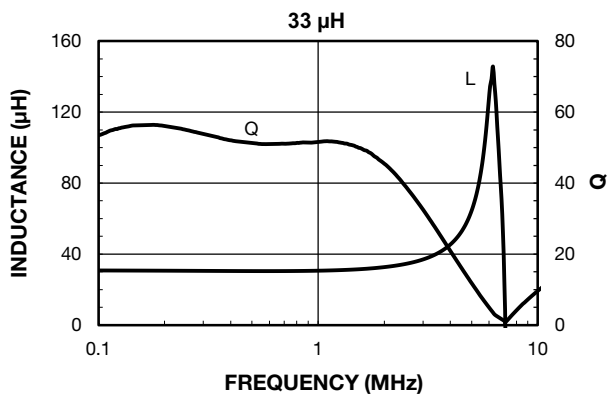
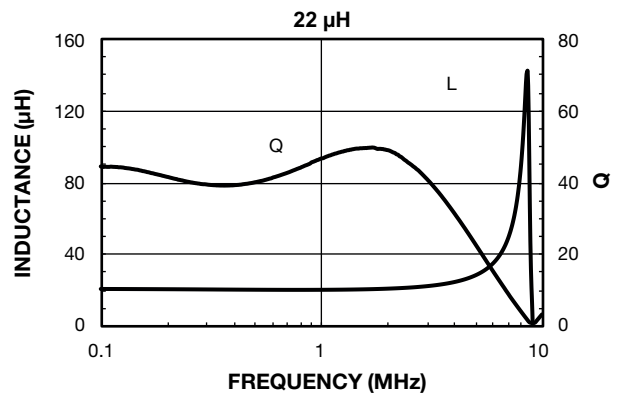
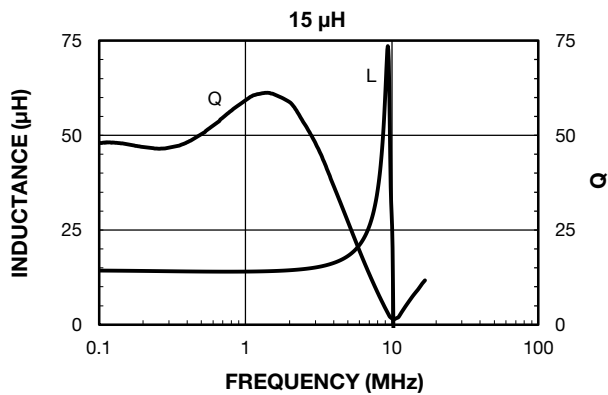
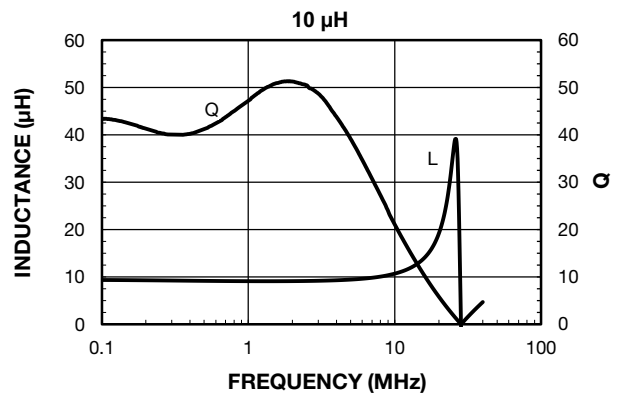
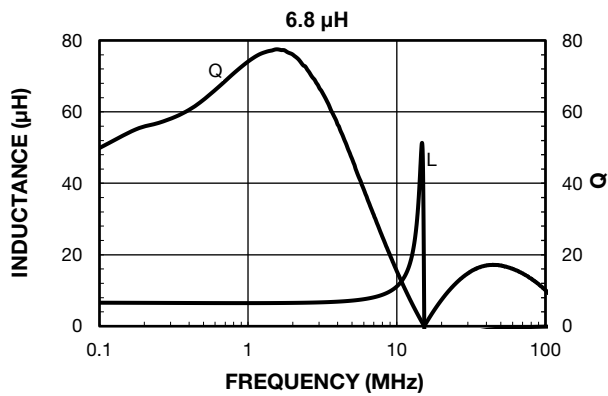
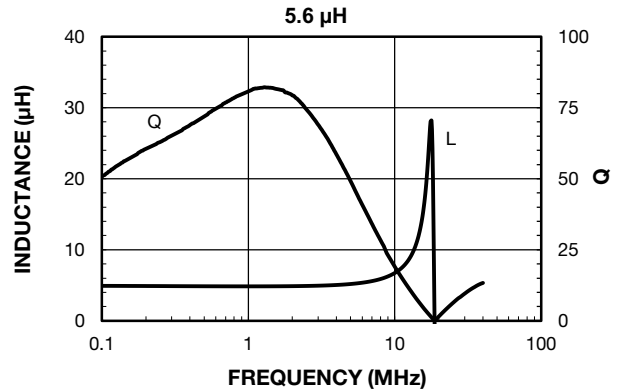
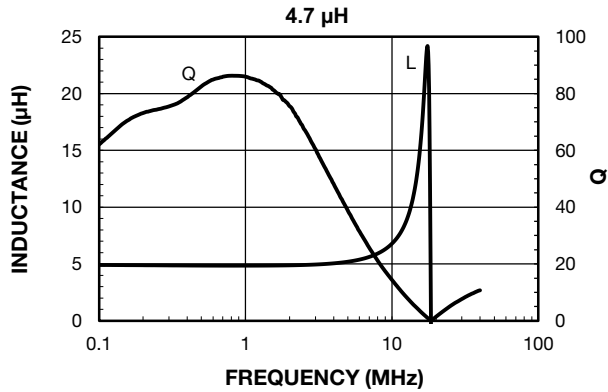


PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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