

IHLP1212BZER2R2M11 Datasheet



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DiGi Electronics Part Number	IHLP1212BZER2R2M11-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	IHLP1212BZER2R2M11
Description	FIXED IND 2.2UH 3A 46 MOHM SMD
Detailed Description	2.2 μ H Shielded Molded Inductor 3 A 46mOhm Max Nonstandard



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Purchase and inquiry

Manufacturer Product Number:

IHLP1212BZER2R2M11

Series:

IHLP-1212BZ-11

Type:

Molded

Inductance:

2.2 μ H

Current Rating (Amps):

3 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.144" L x 0.118" W (3.65mm x 3.00mm)

Manufacturer:

Vishay Dale

Product Status:

Active

Material - Core:

-

Tolerance:

\pm 20%

Current - Saturation (Isat):

3.3A

DC Resistance (DCR):

46mOhm Max

Frequency - Self Resonant:

55MHz

Operating Temperature:

-55°C ~ 125°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.079" (2.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

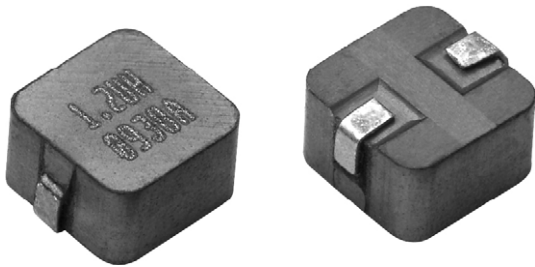
1 (Unlimited)

ECCN:

EAR99



IHLP® Commercial Inductors, Low DCR Series



LINKS TO ADDITIONAL RESOURCES



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) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) ⁽²⁾	SRF TYP. (MHz)
0.22	9.5	11.4	6.5	7.5	245
0.36	11.5	13.8	6.3	6.5	170
0.56	16.2	19.4	5.5	5.5	110
0.68	17.0	20.4	5.5	5.0	105
0.88	18.5	22.0	5.5	4.5	85
1.0	20.0	24.0	5.0	4.5	75
1.2	23.0	27.0	5.0	4.0	65
1.5	28.5	32.0	3.8	4.0	70
2.2	42.9	46.0	3.0	3.3	55
3.3	56.0	61.0	2.7	3.3	45

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- 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.
- Rated operating voltage (across inductor) = 40 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 %

FEATURES

- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up to SRF (see “Standard Electrical Specifications” table)
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design; PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

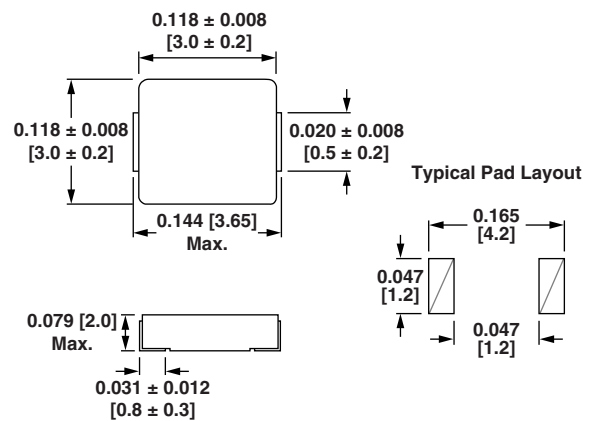


RoHS
COMPLIANT
HALOGEN
FREE

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)
- Currently not recommended for automotive applications

DIMENSIONS in inches [millimeters]



DESCRIPTION

IHLP-1212BZ-11	0.22 μH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

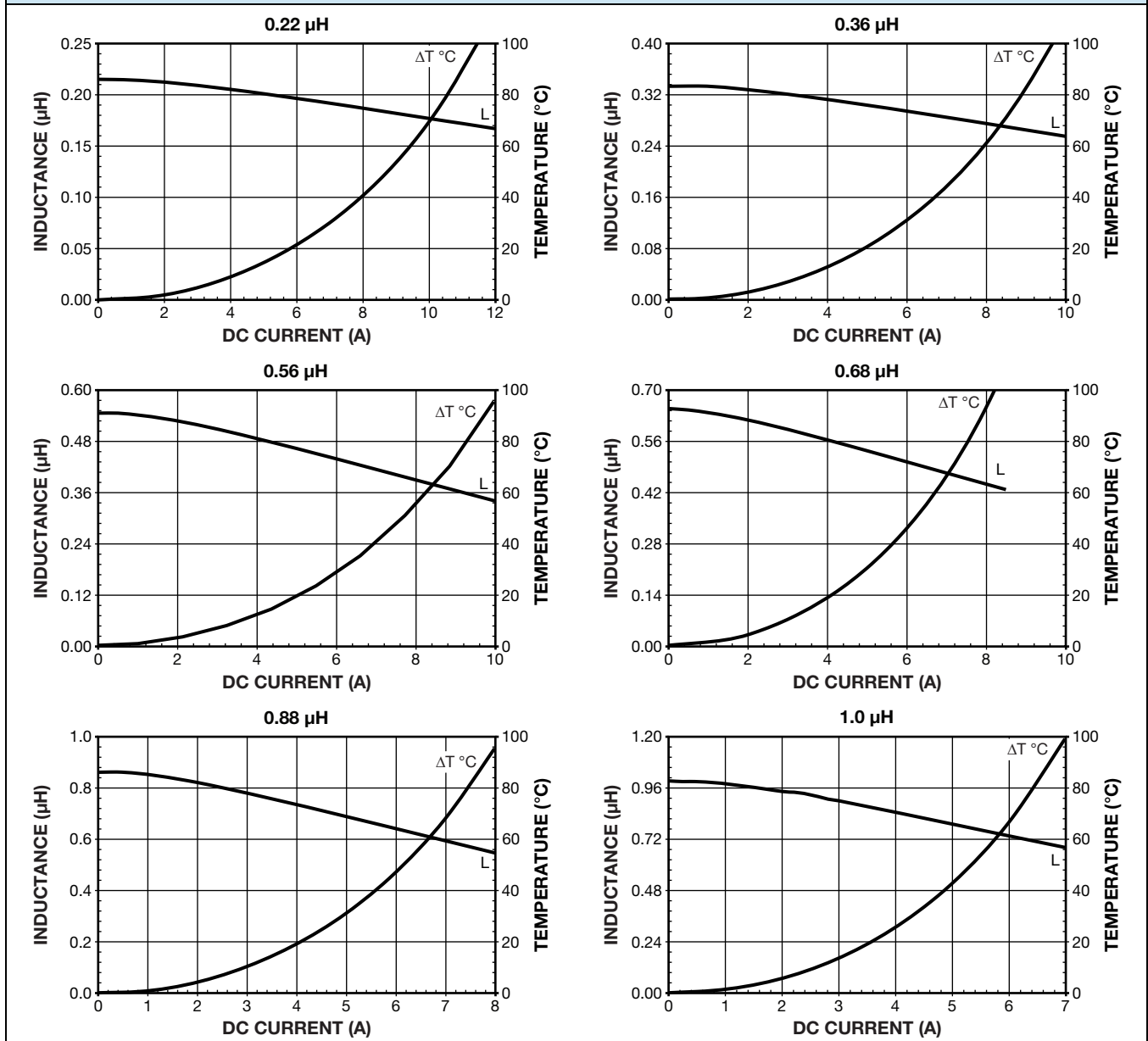
I	H	L	P	1	2	1	2	B	Z	E	R	R	2	2	M	1	1
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE		TOL.	SERIES				



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

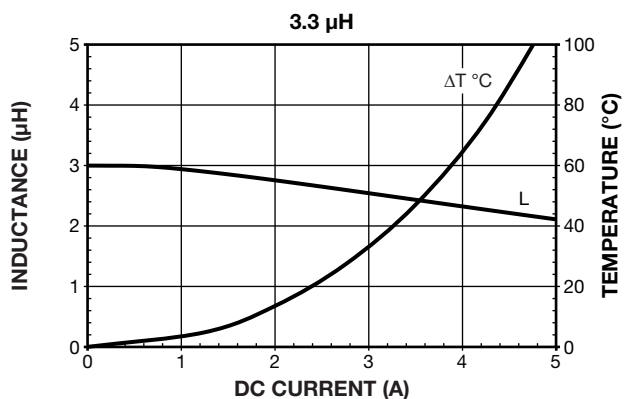
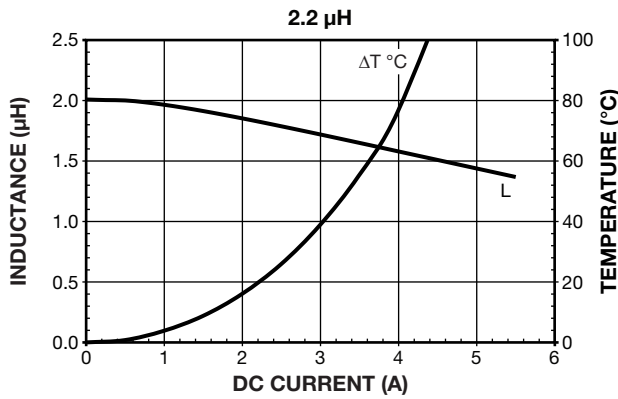
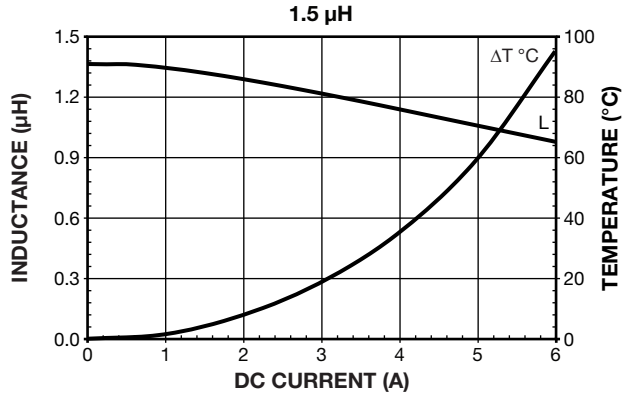
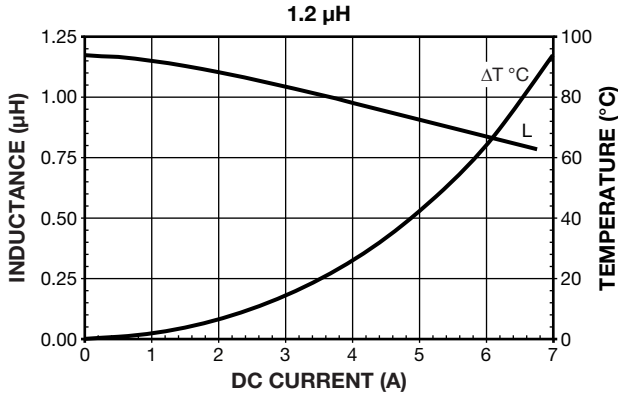
This Vishay product is protected by one or more United States and international patents.

PERFORMANCE GRAPHS



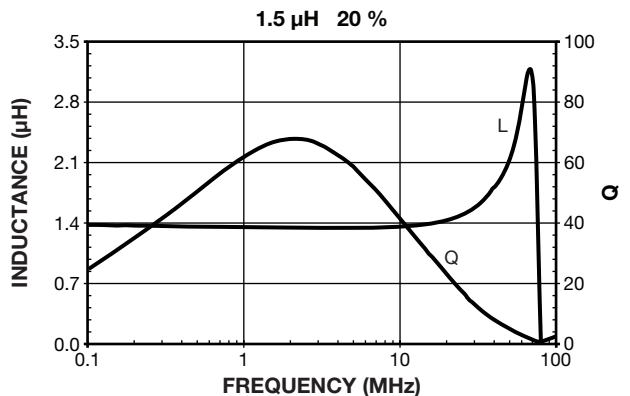
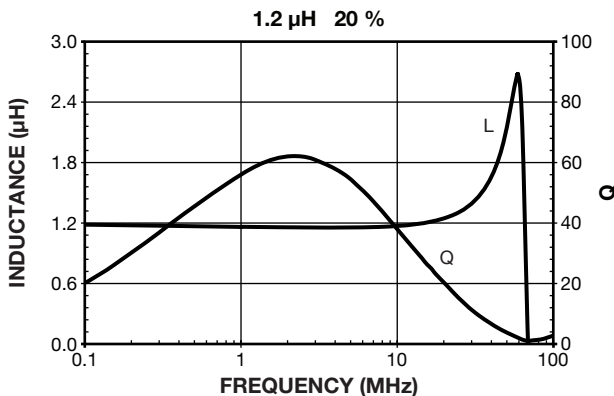
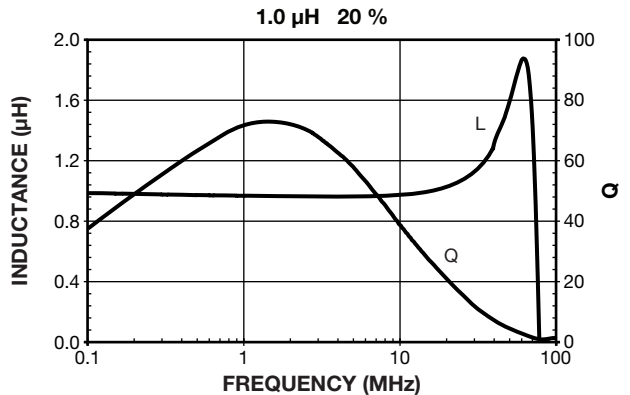
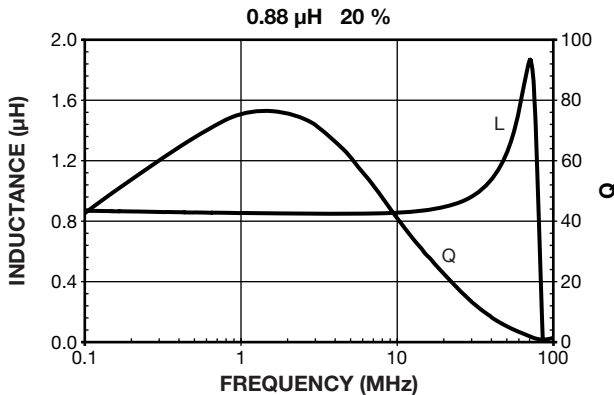
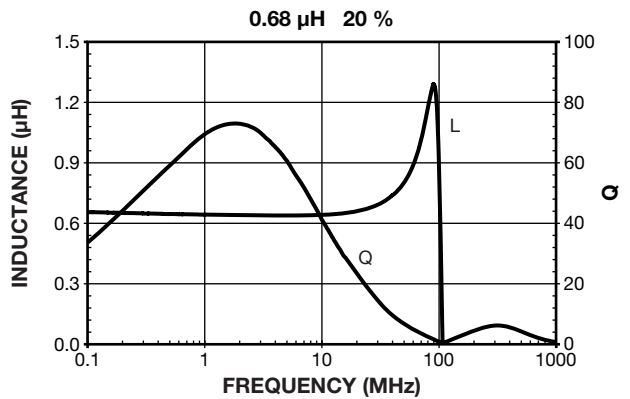
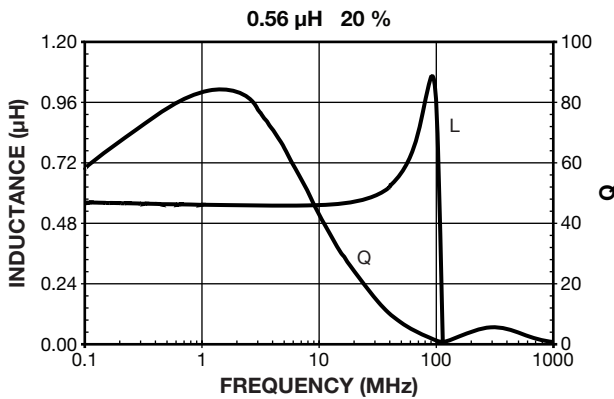
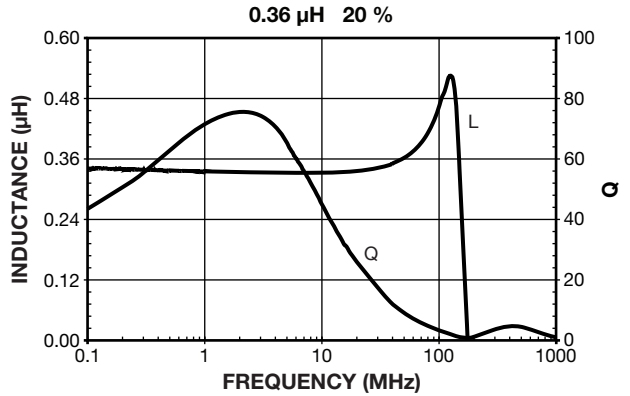
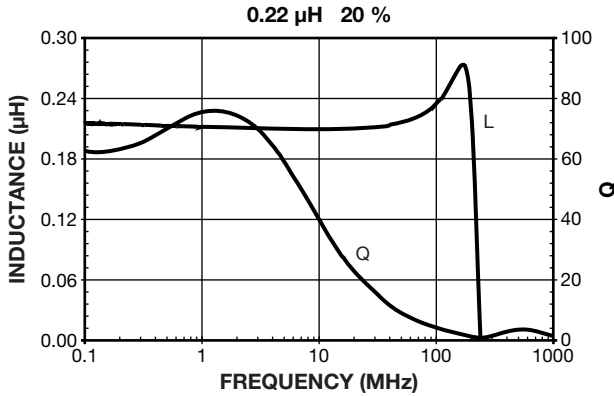


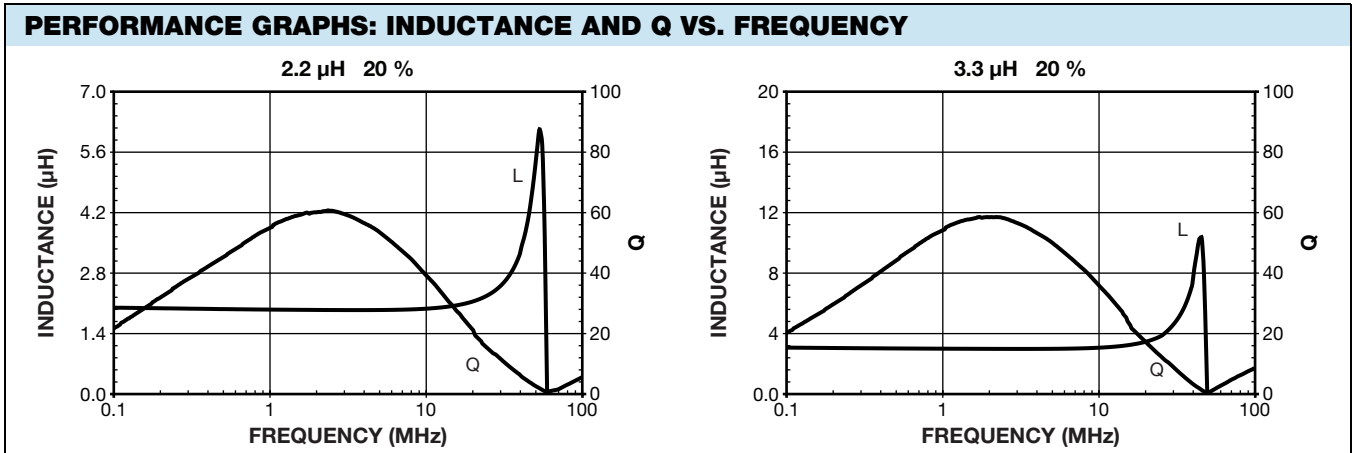
PERFORMANCE GRAPHS





PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY







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