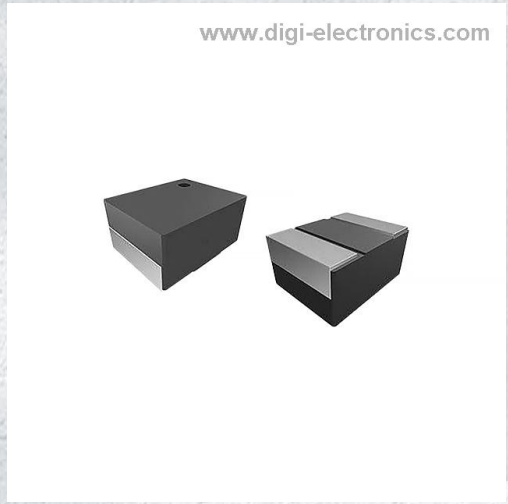
IHHP1008ABER1R5M01 Datasheet



DiGi Electronics Part Number	IHHP1008ABER1R5M01-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	IHHP1008ABER1R5M01
Description	FIXED IND 1.5UH 2.9A 66 MOHM SMD
Detailed Description	1.5 µH Shielded Inductor 2.9 A 66mOhm Max 1008 (2520 Metric)

https://www.DiGi-Electronics.com

Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHHP1008ABER1R5M01	Vishay Dale
Series:	Product Status:
IHHP-1008AB-01	Active
Type:	Material - Core:
-	-
Inductance:	Tolerance:
1.5 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
2.9 A	3.4A
Shielding:	DC Resistance (DCR):
Shielded	66mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
-	-55°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
100 kHz	Surface Mount
Package / Case:	Supplier Device Package:
1008 (2520 Metric)	-
Size / Dimension:	Height - Seated (Max):
0.098" L x 0.079" W (2.50mm x 2.00mm)	0.047" (1.20mm)

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

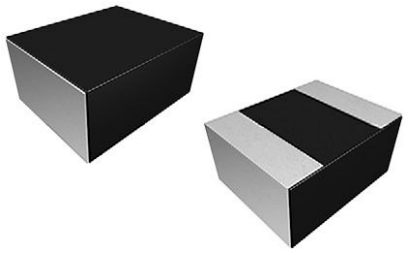
VISHAY

www.vishay.com

IHHP-1008AB-01

Vishay Dale

Low Profile, High Current Inductors



FEATURES

- Magnetic alloy power choke coil
- Miniature size (2.5 x 2.0) and low profile
- Magnetic shielded
- Low acoustic noise and high efficiency
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free
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)

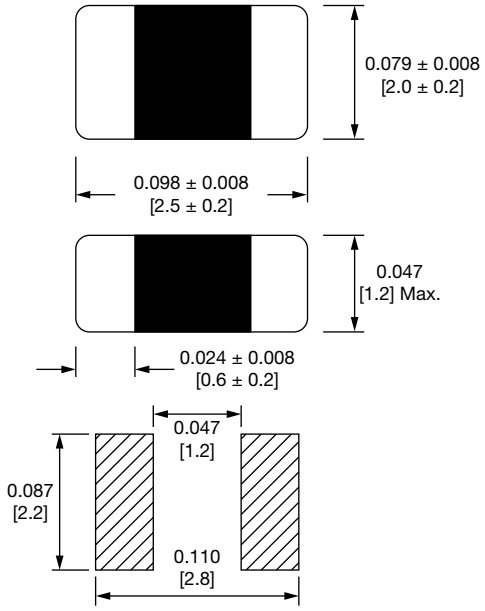
STANDARD ELECTRICAL SPECIFICATIONS

L_0 INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (µH)	DCR 25 °C (mΩ)		HEAT RATING CURRENT DC (A) (3)		SATURATION CURRENT DC (A) (4)	
	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
0.22	8.4	10.5	7.40	6.60	7.10	6.50
0.24	11	13	6.40	5.70	6.60	6.00
0.33	14	17	5.60	5.00	6.10	5.50
0.47	21	26	4.50	4.00	5.05	4.55
1.0	40	48	3.10	2.70	3.90	3.50
1.5	57	69	2.70	2.43	3.10	2.80
2.2	79	95	2.30	2.00	2.60	2.30

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 L_0 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]



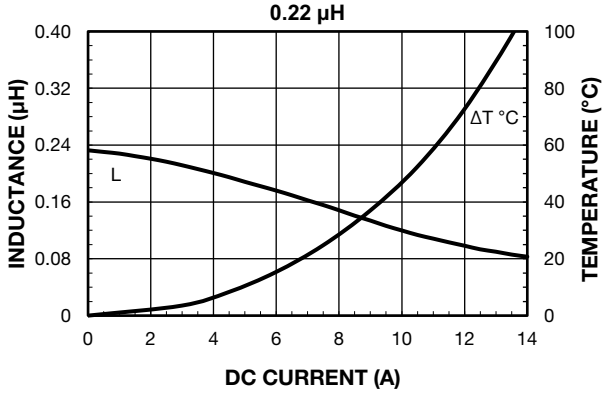
DESCRIPTION

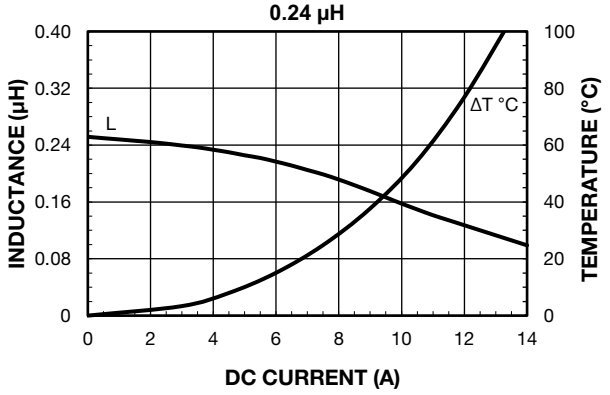
IHHP-1008AB-01	1.0 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

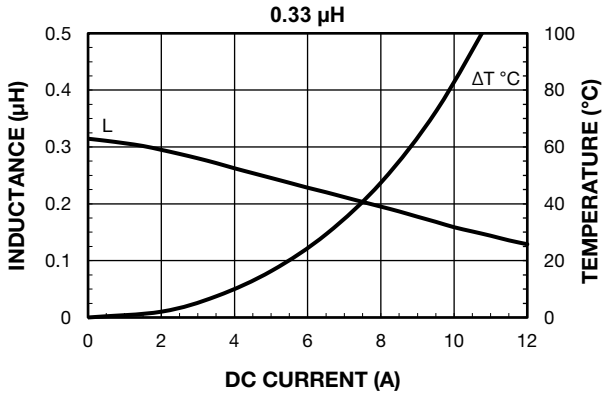
GLOBAL PART NUMBER

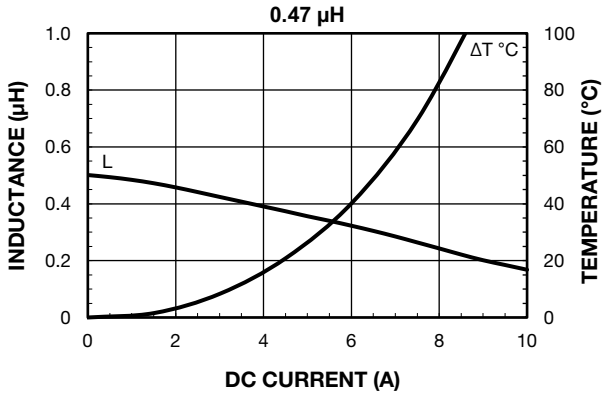
I	H	H	P	1	0	0	8	A	B	E	R	1	R	0	M	0	1
PRODUCT FAMILY				SIZE						PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES	

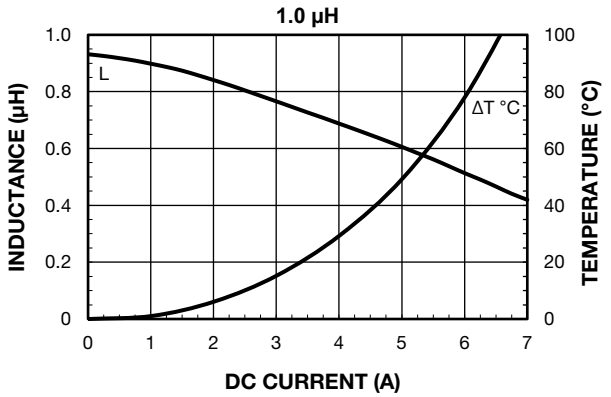
PERFORMANCE GRAPHS

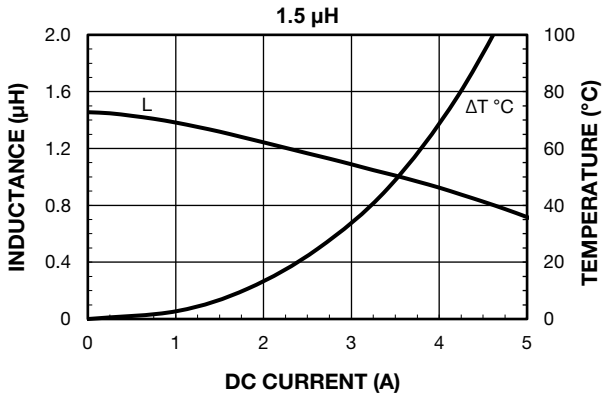


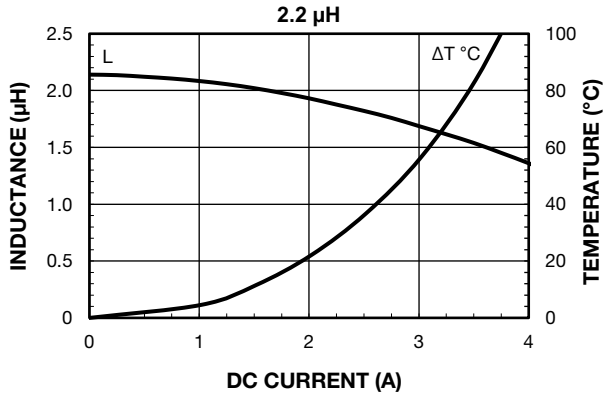




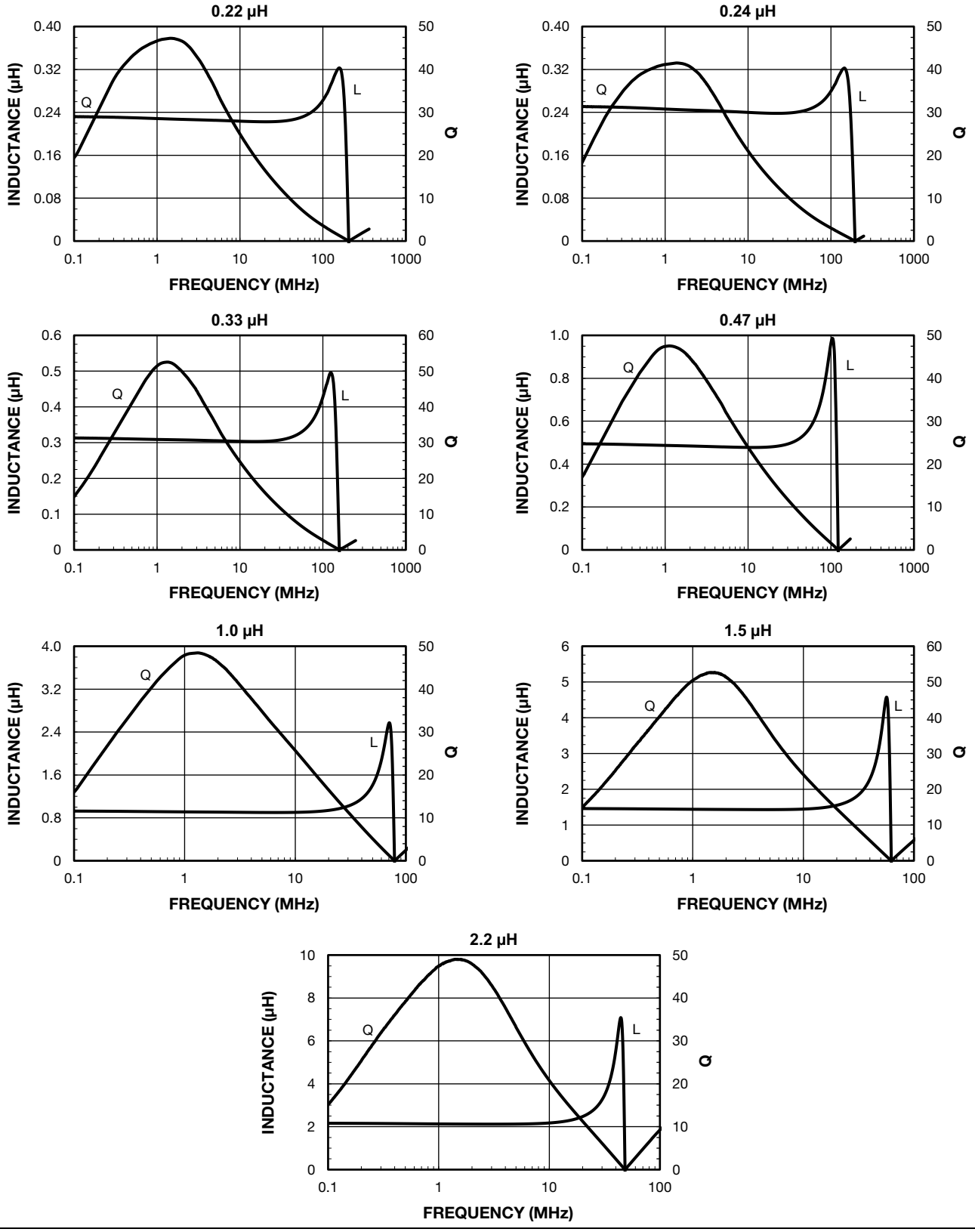








PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY



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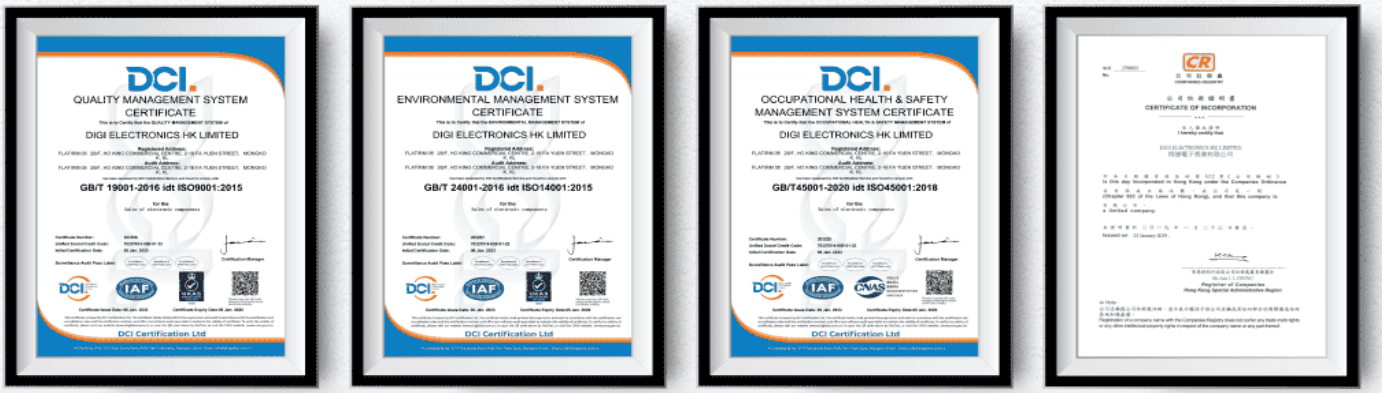

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