

IHLW5050CEERR10M01 Datasheet



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DiGi Electronics Part Number IHLW5050CEERR10M01-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLW5050CEERR10M01

Description FIXED IND 100NH 43A 0.96MOHM SMD

Detailed Description 100 nH Shielded Inductor 43 A 0.96mOhm Max Non

standard



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHLW5050CEERR10M01	Vishay Dale
Series:	Product Status:
IHLW-5050CE-01	Active
Type:	Material - Core:
Inductance:	Tolerance:
100 nH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
43 A	84A
Shielding:	DC Resistance (DCR):
Shielded	0.96mOhm 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:
Nonstandard	
Size / Dimension:	Height - Seated (Max):
0.500" L x 0.500" W (12.70mm x 12.70mm)	0.138" (3.50mm)

Environmental & Export classification

8504.50.4000

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



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Vishay Dale

Low Profile, High Current Inductors - Winged Terminals



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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) ⁽³⁾	SATURATION CURRENT DC TYP. (A) (4)	
0.10	0.8	0.96	43	84	
0.15	1	1.2	41	75	
0.22	1.1	1.3	38.5	65	
0.33	1.3	1.5	36.5	62	
0.47	1.6	2	32	55	
0.68	2.3	2.5	28	49	
0.82	2.6	3	25	44	
1.0	3.3	3.5	24	40	
1.5	5.1	5.5	19	35	
1.8	6.5	7	16.5	30	
2.2	7.2	8	16	29	
3.3	11	12	12	27	
4.7	14.3	15	10	24	
5.6	18.3	19	9.5	19	
6.8	19.8	22	9	18	
8.2	24.8	28	8.5	16	
10	30.4	34	7	14	

Notes

- All test data is referenced to 25 °C ambient
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 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) = 75 V DC current (A) that will cause an approximate ΔT of 40 °C DC current (A) that will cause L₀ to drop approximately 20 %

FEATURES

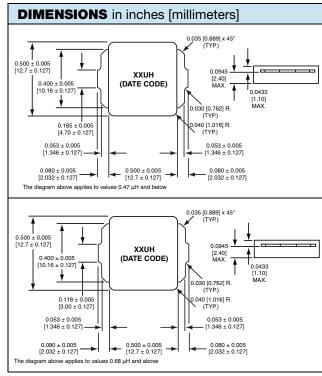
- Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design. PATENT(S): www.vishav.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

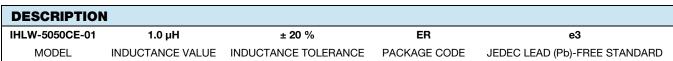
RoHS

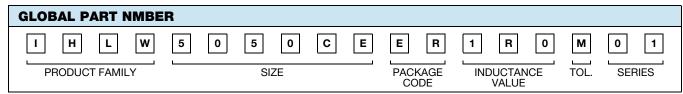
HALOGEN FREE **GREEN** (5-2008)

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)







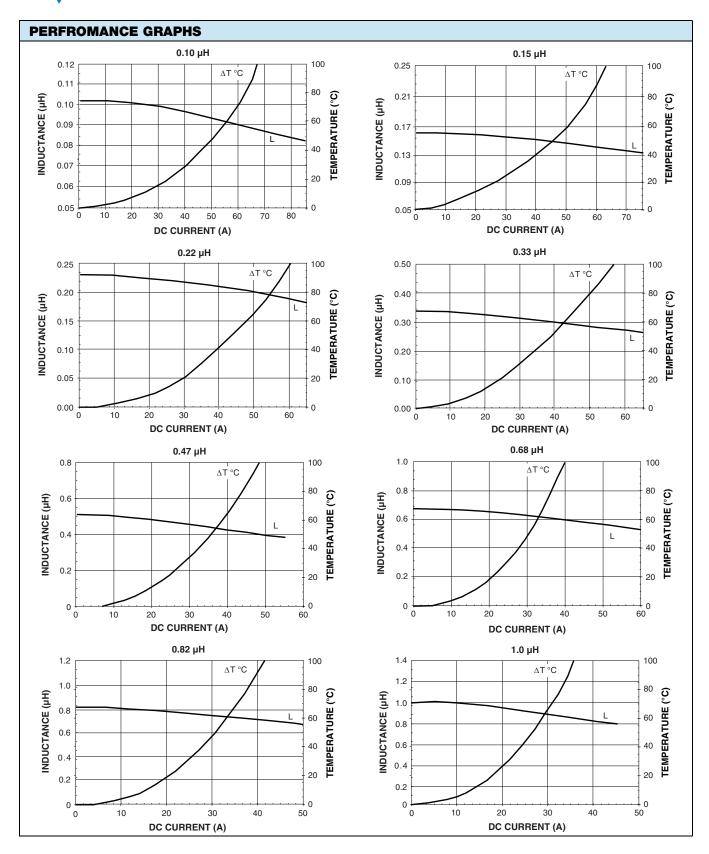
PATENT(S): www.vishay.com/patents

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



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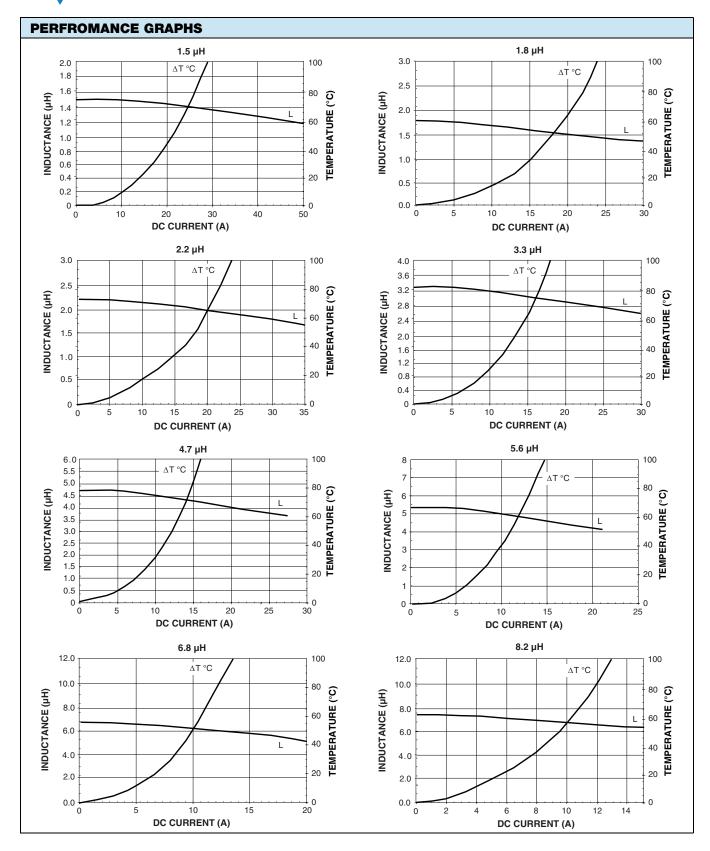
Vishay Dale



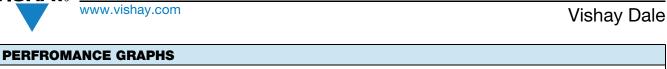


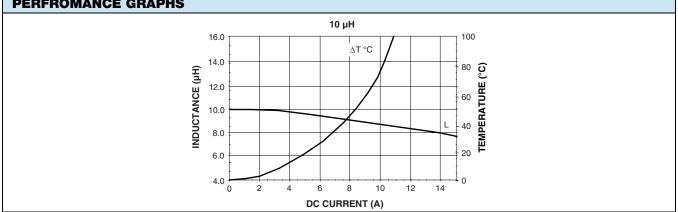
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