

IHLP5050CEER6R8M01 Datasheet



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DiGi Electronics Part Number IHLP5050CEER6R8M01-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLP5050CEER6R8M01

Description FIXED IND 6.8UH 9A 22 MOHM SMD

Detailed Description 6.8 µH Shielded Molded Inductor 9 A 22mOhm Max

Nonstandard



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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:	
IHLP5050CEER6R8M01	Vishay Dale	
Series:	Product Status:	
IHLP-5050CE-01	Active	
Type:	Material - Core:	
Molded		
Inductance:	Tolerance:	
6.8 µH	±20%	
Current Rating (Amps):	Current - Saturation (Isat):	
9 A	18A	
Shielding:	DC Resistance (DCR):	
Shielded	22mOhm 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):	
0.520" L x 0.508" W (13.20mm x 12.90mm)	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:				

IHLP-5050CE-01



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Vishay Dale

RoHS

COMPLIANT

HALOGEN

FREE

GREEN

(5-2008)

IHLP® Commercial Inductors, High Saturation Series





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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) (1)	SATURATION CURRENT DC TYP. (A) (2)	
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	
0.60	1.8	2.2	29	51	
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

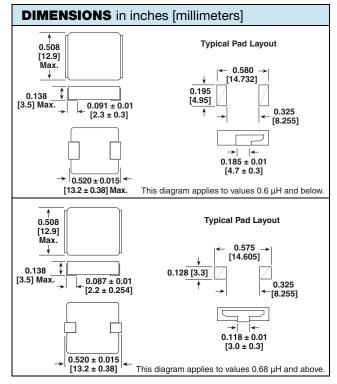
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Rated operating voltage (across inductor) = 75 V
- (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 %

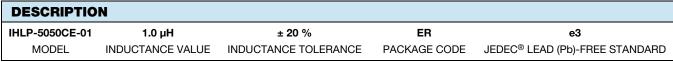
FEATURES

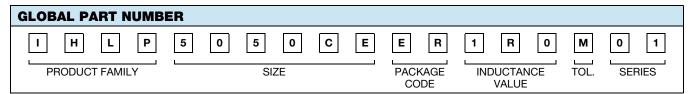
- Lowest height (3.5 mm) in this package footprint
- Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design.
- PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

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

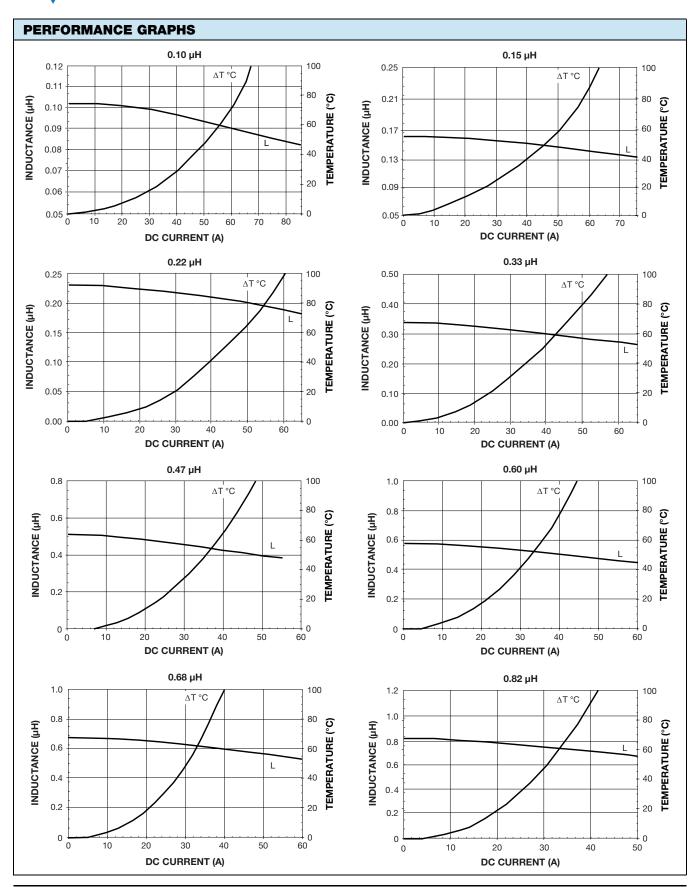
This Vishay product is protected by one or more United States and international patents.





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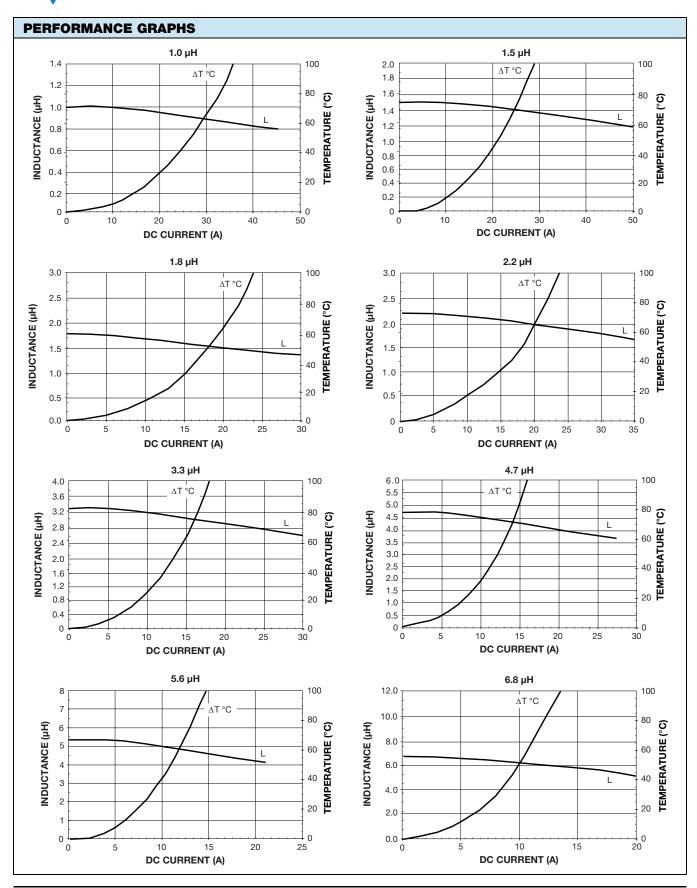






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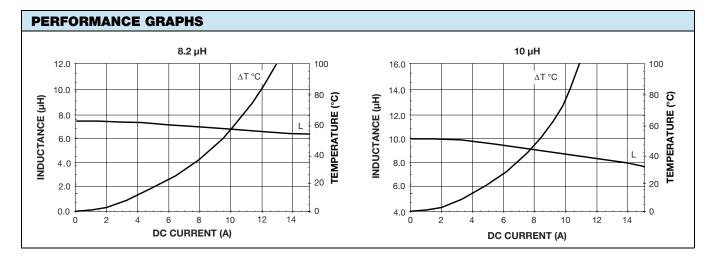




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