

IHLP2020BZER3R3M5A Datasheet



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DiGi Electronics Part Number IHLP2020BZER3R3M5A-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLP2020BZER3R3M5A

Description FIXED IND 3.3UH 4A 74.9 MOHM SMD

Detailed Description 3.3 µH Shielded Molded Inductor 4 A 74.9mOhm M

ax Nonstandard



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHLP2020BZER3R3M5A	Vishay Dale
Series:	Product Status:
IHLP-2020BZ-5A	Active
Type:	Material - Core:
Molded	
Inductance:	Tolerance:
3.3 μΗ	±20%
Current Rating (Amps):	Current - Saturation (Isat):
4 A	5.1A
Shielding:	DC Resistance (DCR):
Shielded	74.9mOhm Max
Q @ Freq:	Frequency - Self Resonant:
	33.7MHz
Ratings:	Operating Temperature:
AEC-Q200	-55°C ~ 155°C
Inductance Frequency - Test:	Features:
100 kHz	
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
	0.216" L x 0.204" W (5.49mm x 5.18mm)
Height - Seated (Max):	
0.079" (2.00mm)	

Environmental & Export classification

8504.50.4000

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

IHLP-2020BZ-5A



www.vishay.com

Vishay Dale

AUTOMOTIVE

RoHS

COMPLIANT

FREE

<u>GREEN</u> (5-2008)

IHLP® Automotive Inductors, High Temperature (155 °C) 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)		
0.47	7.3	7.8	13.43	9.35	101.6		
0.68	13.3	14.2	9.44	8.01	92.3		
1.0	19.5	20.9	7.40	7.25	55.7		
2.2	44.5	47.6	5.10	6.40	43.1		
3.3	70.0	74.9	4.00	5.10	33.7		
4.7	89.1	95.3	3.20	2.80	30.5		
6.8	126.9	135.8	2.80	2.60	24.8		
10	181.0	193.7	2.50	2.13	17.5		
15	289.0	303.0	1.72	1.72	16.8		
22	413.0	433.0	1.62	1.50	12.0		

Notes

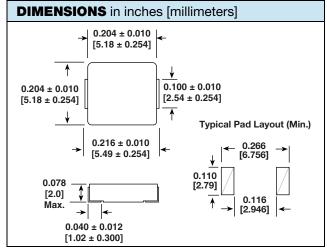
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Rated operating voltage (across inductor) = 50 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 %

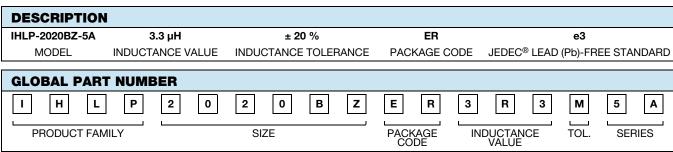
FEATURES

- High temperature, up to 155 °C
- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up to the SRF (see Standard Electrical Specifications table)
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- AEC-Q200 qualified
- IHLP design; PATENT(S): www.vishav.com/patents
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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





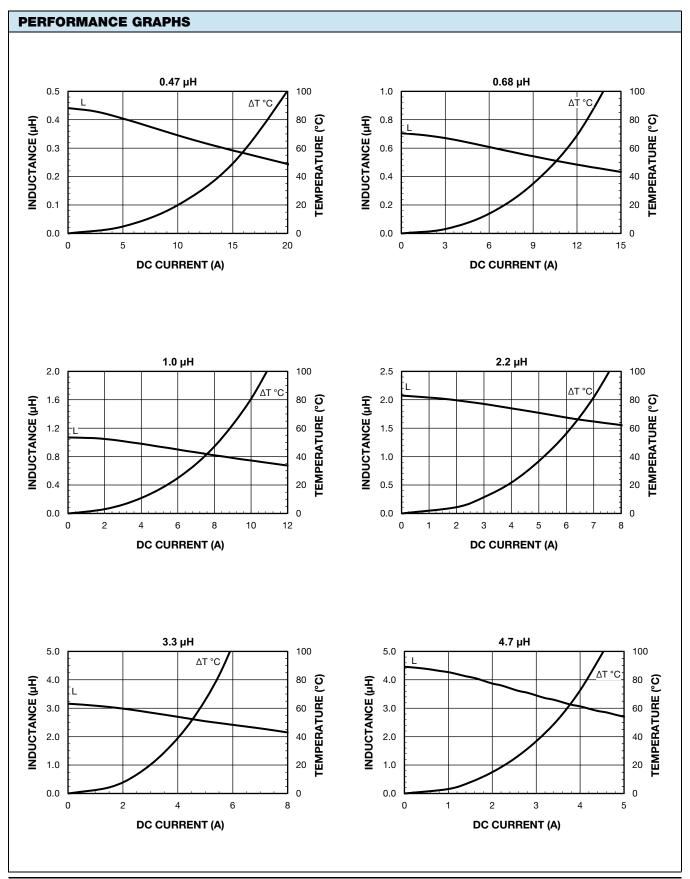
PATENT(S): www.vishay.com/patents

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





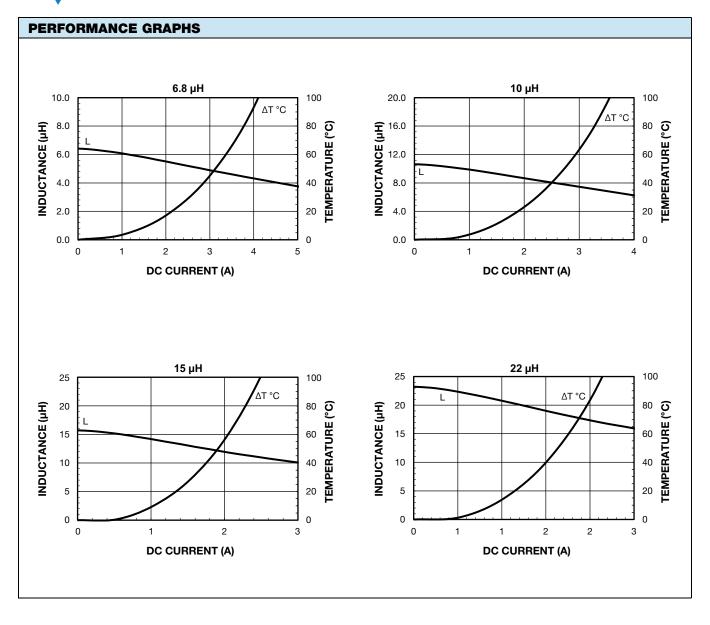
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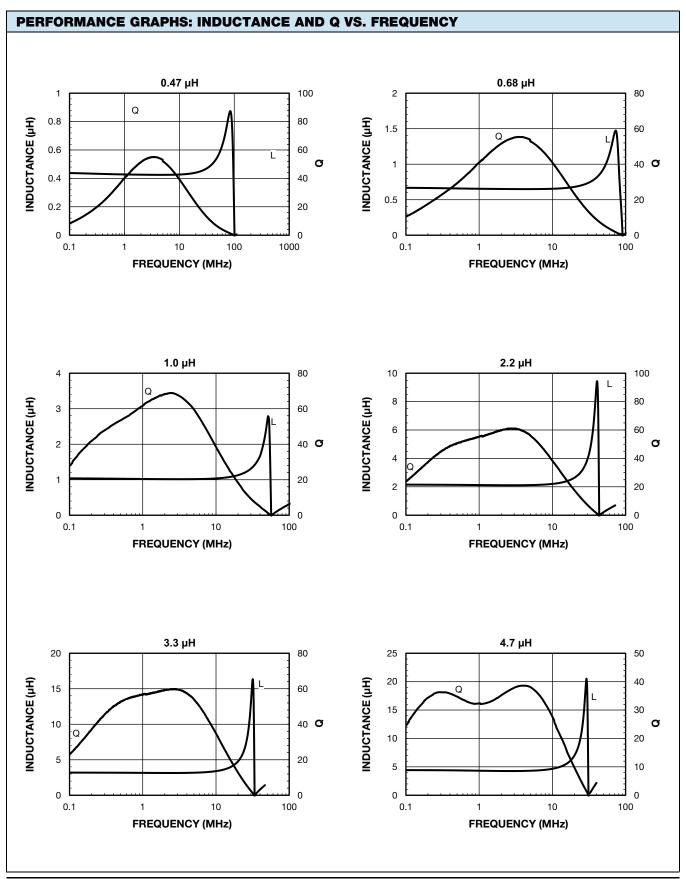
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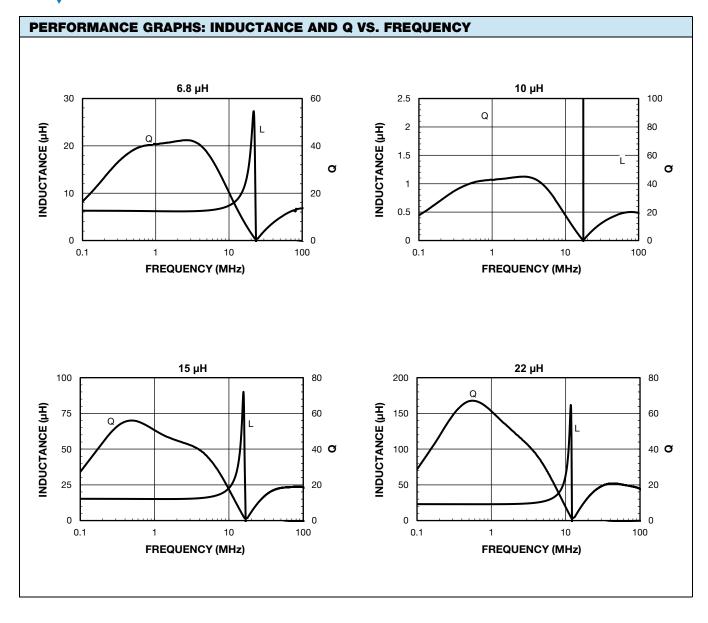
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