

IHLP1616BZETR22N01 Datasheet

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DiGi Electronics Part Number

IHLP1616BZETR22N01-DG

Manufacturer

Vishay Dale

Manufacturer Product Number

IHLP1616BZETR22N01

Description

FIXED IND 220NH 13A 8.6MOHM SMD

Detailed Description

220 nH Shielded Molded Inductor 13 A 8.6mOhm M

ax Nonstandard

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHLP1616BZETR22N01	Vishay Dale
Series:	Product Status:
IHLP-1616BZ-01	Obsolete
Type:	Material - Core:
Molded	
Inductance:	Tolerance:
220 nH	±30%
Current Rating (Amps):	Current - Saturation (Isat):
13 A	24A
Shielding:	DC Resistance (DCR):
Shielded	8.6mOhm Max
Q @ Freq:	Frequency - Self Resonant:
	151MHz
Ratings:	Operating Temperature:
	-55°C ~ 125°C
Inductance Frequency - Test:	Features:
100 kHz	
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
	0.175" L x 0.160" W (4.45mm x 4.06mm)
Height - Seated (Max):	
0.079" (2.00mm)	

Environmental & Export classification

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





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Vishay Dale

RoHS

COMPLIANT

HALOGEN FREE

GREEN

(5-2008)

IHLP® Commercial Inductors, High Saturation 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)		
0.10	4.50	5.00	16.0	35.0	327		
0.22	8.20	8.60	13.0	24.0	151		
0.47	16.0	18.0	5.60	11.50	97		
1.0	33.0	37.0	3.75	8.50	90		
1.5	43.3	46.3	5.1	6.1	90		
2.2	80.0	90.0	2.85	6.00	39		

Notes

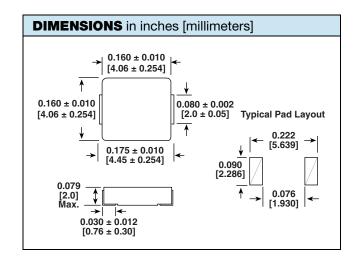
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Rated operating voltage (across inductor) = 50 V
- (1) DC current (A) that will cause an approximate ΔT of 40 °C
- $^{(2)}\,$ DC current (A) that will cause L_0 to drop approximately 20 %

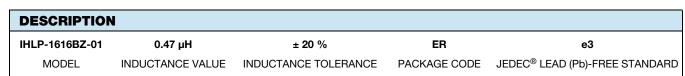
FEATURES

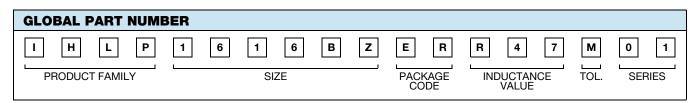
- Shielded construction
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Excellent DC/DC energy storage up to 5 MHz.
 Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)
- IHLP design; PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see <u>www.vishav.com/doc?99912</u>

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

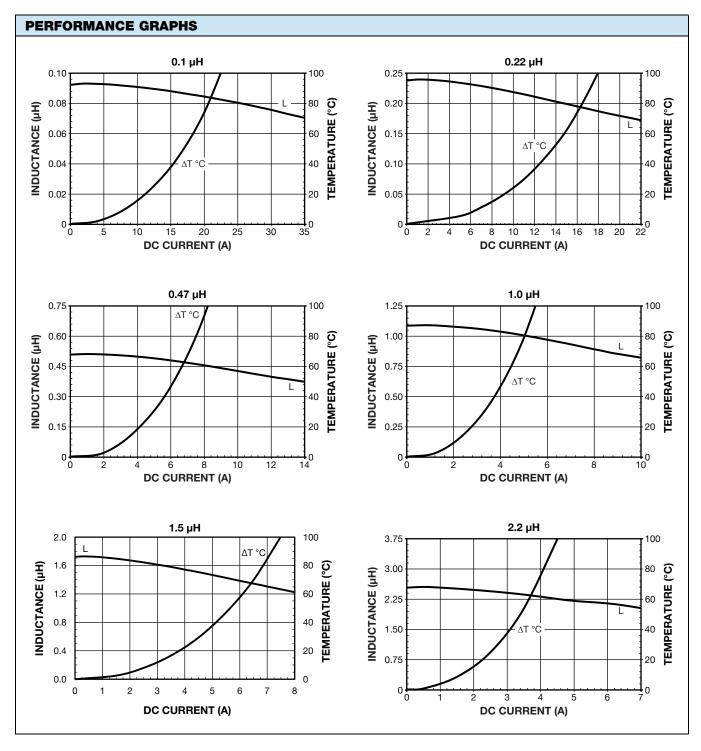
This Vishay product is protected by one or more United States and international patents.





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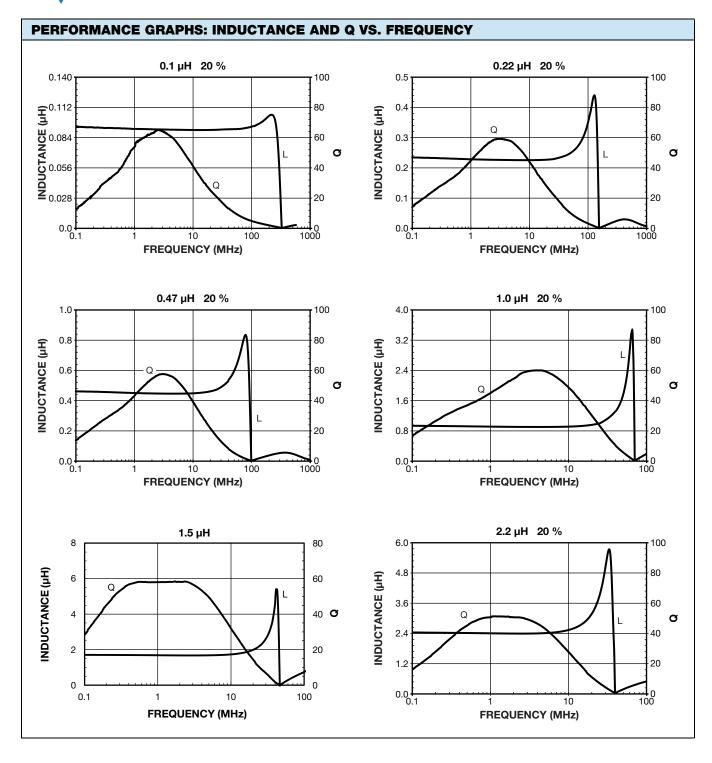






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