

IHLD4032KBER220M5A Datasheet

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DiGi Electronics Part Number IHLD4032KBER220M5A-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLD4032KBER220M5A

Description FIXED IND 22UH 4.1A 72.5MOHM SMD

Detailed Description 22 μH Shielded Inductor 4.1 A 72.5mOhm Max Non

standard



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHLD4032KBER220M5A	Vishay Dale
Series:	Product Status:
IHLD-5A	Active
Type:	Material - Core:
Inductance:	Tolerance:
22 μH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
4.1 A	4.1A
Shielding:	DC Resistance (DCR):
Shielded	72.5mOhm Max
Q @ Freq:	Frequency - Self Resonant:
	7MHz
Ratings:	Operating Temperature:
AEC-Q200	-55°C ~ 155°C
Inductance Frequency - Test:	Mounting Type:
100 kHz	Surface Mount
Package / Case:	Size / Dimension:
Nonstandard	0.469" L x 0.379" W (11.90mm x 9.62mm)
Height - Seated (Max):	
0.441" (11.20mm)	

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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AUTOMOTIVE

RoHS

COMPLIANT

Low Profile, High Current Dual Inductors



ADDITIONAL RESOURCES





STANDARD ELECTRICAL SPECIFICATIONS						
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP.	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)	
10	30.5	32.6	5.6	7.4	10.2	
15	43.5	45.5	4.6	5.5	9.5	
22	67.8	72.5	4.1	4.1	7	
33	100	107.0	3.8	3.7	6	

Notes

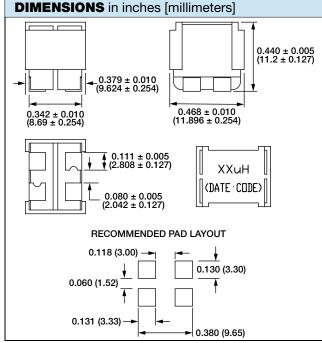
- All test data is referenced to 25 °C ambient Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Rated operating voltage (across inductor) = 50 V
- DC current (A) that will cause an approximate ΔT of 40 °C
- DC current (A) that will cause L₀ to drop approximately 20 %

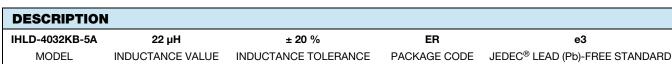
FEATURES

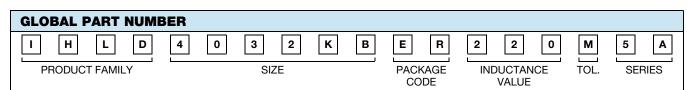
- Two inductors in one package
- High temperature, up to 155 °C
- Shielded construction
- Optimal design realizes high quality sound and low distortion
- Low coupling for minimal cross-talk between inductors
- Frequency range up to 1 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra-low buzz noise, due to composite construction
- AEC-Q200 qualified
- IHLP design. PATENT(S): www.vishay.com/patents
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

Class D audio amplifiers





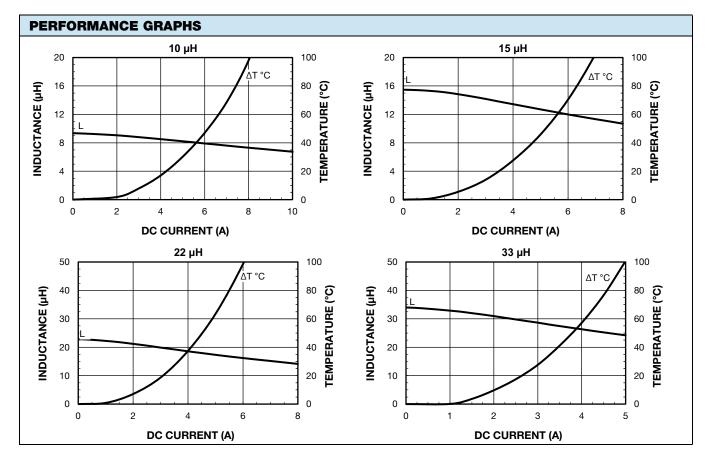


PATENT(S): www.vishay.com/patents

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

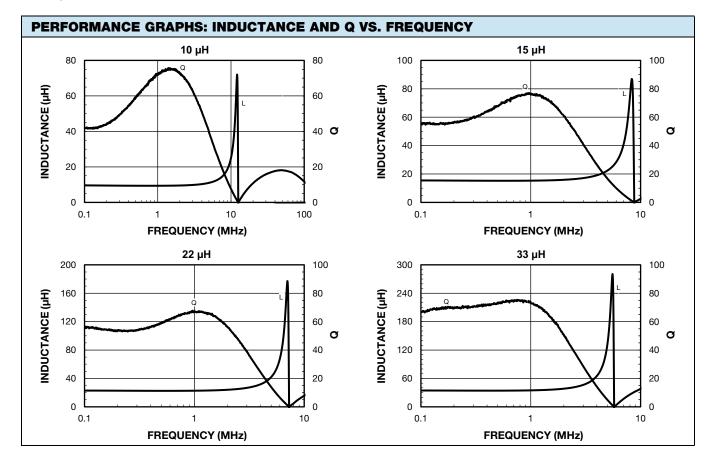


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 - Go to "Edit" → "Preferences" → "3D & Multimedia" → and mark "Enable playing of 3D content" → confirm with "OK"

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