

IHLP3232CZERR47M11 Datasheet

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DiGi Electronics Part Number IHLP3232CZERR47M11-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLP3232CZERR47M11

Description FIXED IND 470NH 24A 2.72MOHM SMD

Detailed Description 470 nH Shielded Molded Inductor 24 A 2.72mOhm

Max Nonstandard



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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

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Manufacturer:
Vishay Dale
Product Status:
Active
Material - Core:
Tolerance:
±20%
Current - Saturation (Isat):
18A
DC Resistance (DCR):
2.72mOhm Max
Frequency - Self Resonant:
69MHz
Operating Temperature:
-55°C ~ 125°C
Mounting Type:
Surface Mount
Supplier Device Package:
Height - Seated (Max):
0.118" (3.00mm)

Environmental & Export classification

8504.50.4000

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





Vishay Dale

IHLP® Commercial Inductors, Low DCR Series



DESIGN SUPPORT TOOLS AVAILABLE





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)			
0.22	1.51	1.62	36.0	24.0	151			
0.33	2.22	2.38	27.0	18.0	101			
0.47	2.54	2.72	24.0	18.0	69			
0.68	3.73	3.99	20.0	15.2	59			
0.82	4.55	4.87	18.5	15.0	53			
1.0	6.07	6.49	16.0	14.8	51			
1.5	8.29	9.94	12.5	11.3	35			
2.2	13.70	14.70	10.4	10.4	30			
4.7	26.70	28.60	7.6	5.4	21			
6.8	35.30	37.80	6.5	5.0	17			
8.2	43.60	46.70	5.9	4.2	16			
10	51.50	55.10	5.3	3.8	12			
15	79.70	85.30	4.3	3.8	11			
22	123.0	132.0	3.6	2.8	7.7			
33	166.0	177.0	3.1	2.1	5.6			

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 L₀ to drop approximately 20 %

FEATURES

- · Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)

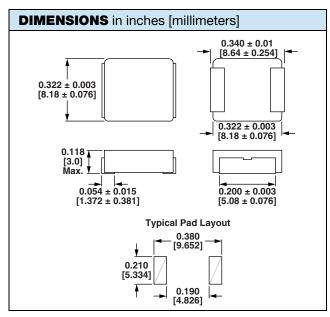


FREE

- Operating temperature up to 125 °C
- 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 <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- PDA/notebook/desktop/server applications
- · High current POL converters
- · Low profile, high current power supplies
- Battery powered device
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)



DESCRIPTION	ı												
IHLP-3232CZ-11	4.7 լ	ıΗ	± 20 %		ER			e3					
MODEL	INDUCTANO	CE VALUE	INDUCTA	NCE TOLE	RANCE	PACI	KAGE C	ODE	JEDEC ⁶	® LEAD	(Pb)-FRI	EE STA	NDARD
GLOBAL PAR	T NUMBEI	R											
I H L	P (3 2	3	2 C	Z	E	R	4	R	7	М	1	1
PRODUCT FAM	ЛILY		SIZE			PACK		INI	DUCTAN		TOL.	SEF	RIES

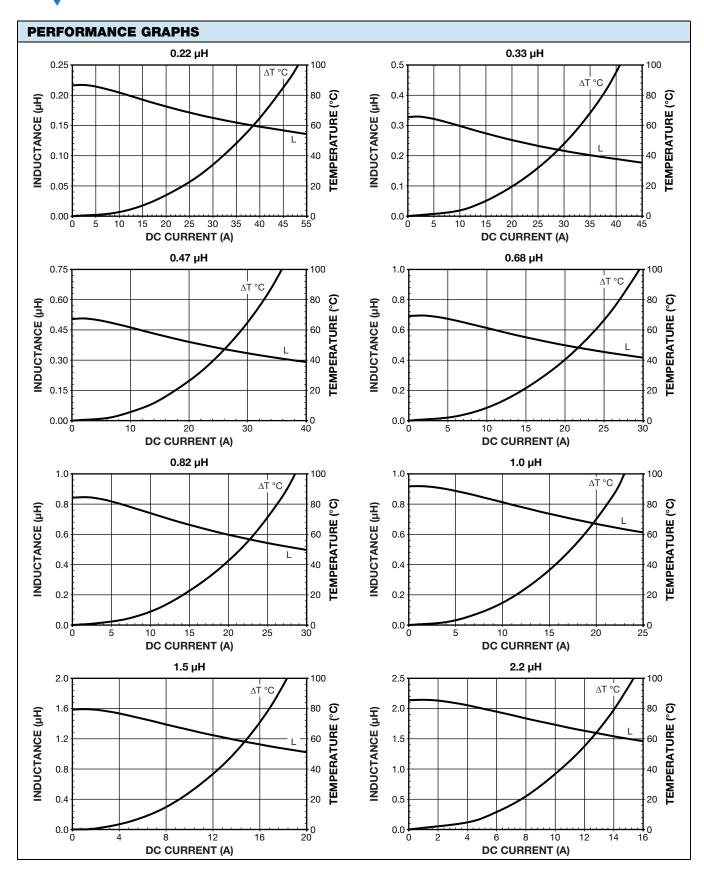
PATENT(S): www.vishay.com/patents

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

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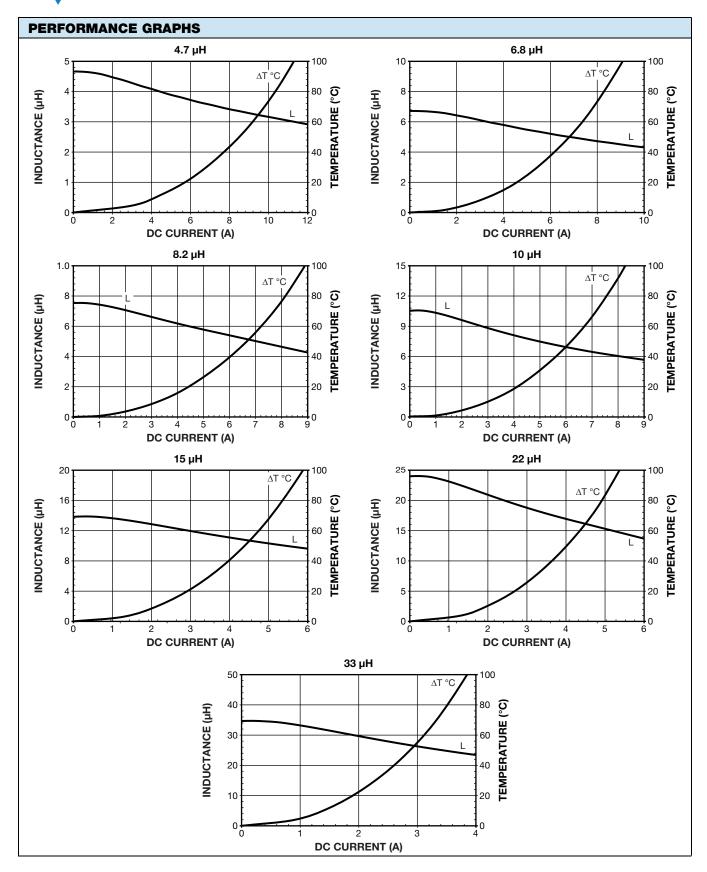


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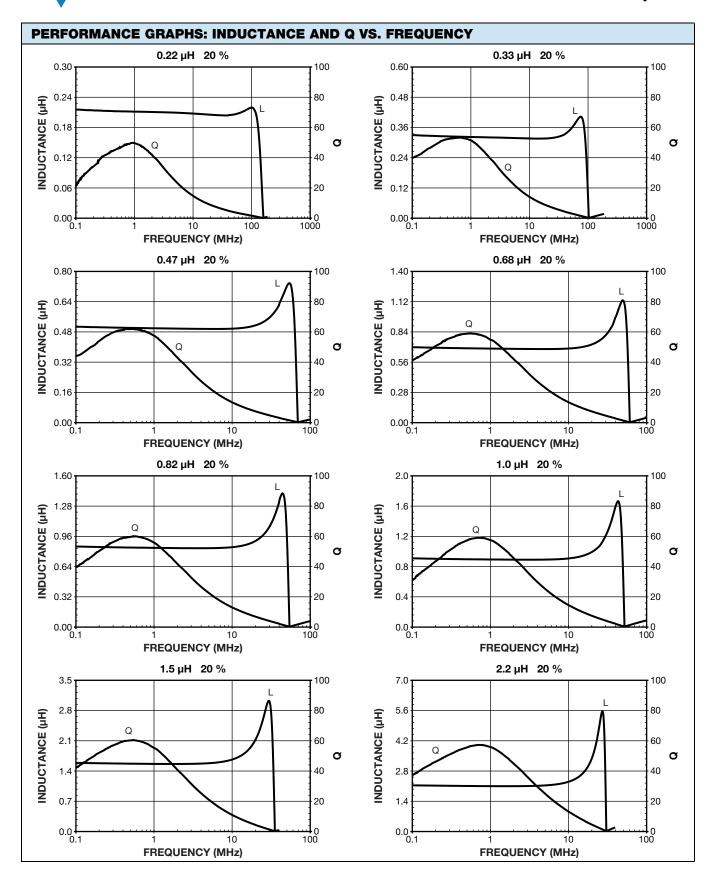






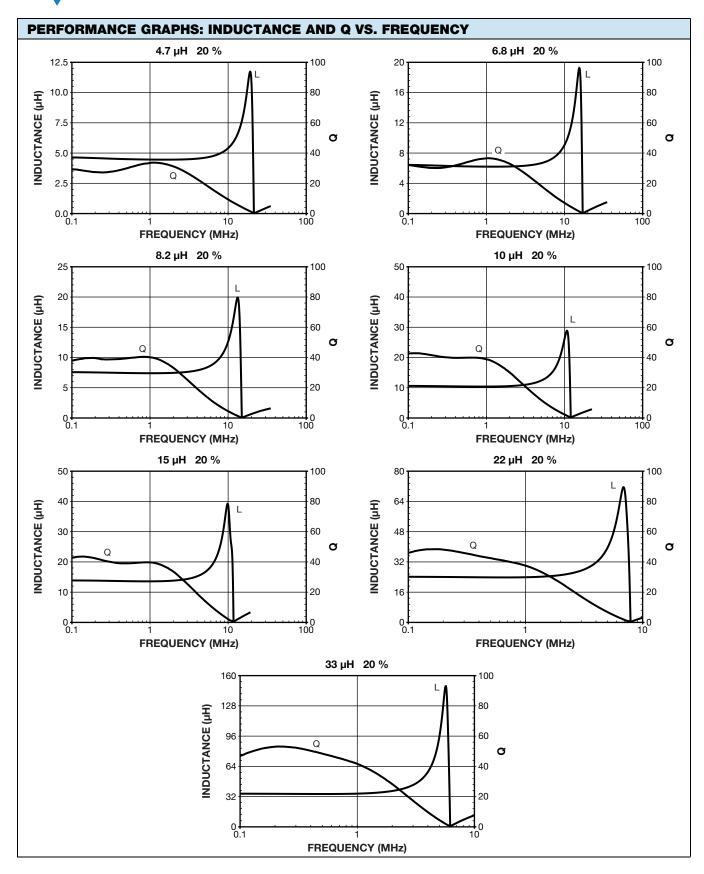














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