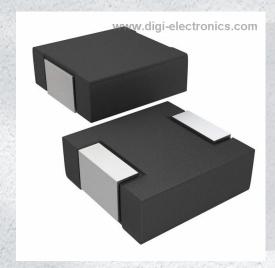


IHLM2525CZERR82M01 Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number IHLM2525CZERR82M01-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLM2525CZERR82M01

Description FIXED IND 820NH 13A 8 MOHM SMD

Detailed Description 820 nH Shielded Inductor 13 A 8mOhm Max Nonsta

ndard



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:		
IHLM2525CZERR82M01	Vishay Dale		
Series:	Product Status:		
IHLM-2525CZ-01	Active		
Type:	Material - Core:		
Inductance:	Tolerance:		
820 nH	±20%		
Current Rating (Amps):	Current - Saturation (Isat):		
13 A	24A		
Shielding:	DC Resistance (DCR):		
Shielded	8mOhm 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):		
0.270" L x 0.255" W (6.86mm x 6.47mm)	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
HTSIIS.	





Vishay Dale

Low Profile, High Current Inductors - Special Molding



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	1.5	1.7	32.5	60	400	
0.15	1.9	2.5	26	52	180	
0.20	2.4	3.0	24	41	150	
0.22	2.5	2.8	23	40	126	
0.33	3.5	3.9	20	30	100	
0.47	4.0	4.2	17.5	26	75	
0.68	5.0	5.5	15.5	25	62	
0.82	6.7	8.0	13	24	60	
1.0	9.0	10	11	22	55	
1.5	14	15	9	18	40	
2.2	18	20	8	14	38	
3.3	28	30	6	13.5	30	
4.7	37	40	5.5	10	25	
6.8	54	60	4.5	8	21	
8.2	64	68	4	7.5	17	
10	102	105	3	7.0	16	

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 molded height (3.0 mm) in this package footprint



• Shielded construction

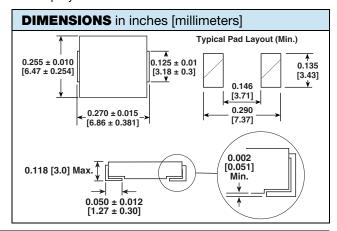
 Excellent DC/DC energy storage up to 5 MHz. Filter inductor applications up to SRF (see "Standard Electrical Specifications" table)

RoHS COMPLIANT

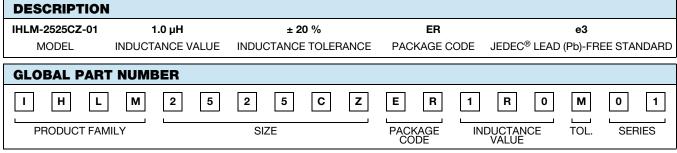
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Encapsulated body offers improved environmental protection and moisture resistance
- · Higher dielectric withstanding voltage vs. IHLP
- Flame retardant encapsulant (UL 94 V-0)
- · Corrosion resistant package
- 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
- · Harsh environments including moisture, chemicals and salt spray



Document Number: 34172



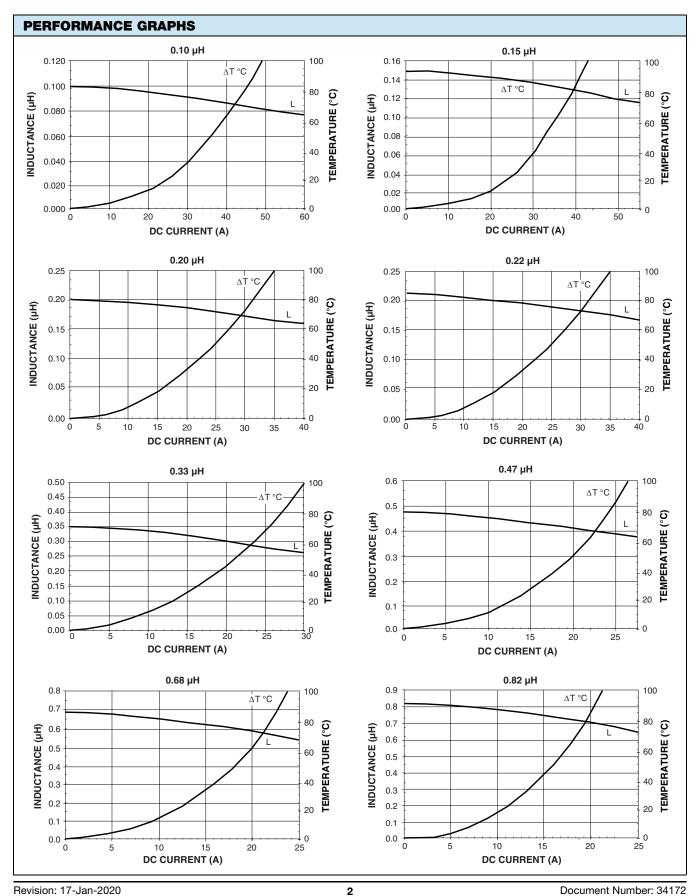
PATENT(S): www.vishay.com/patents

Revision: 17-Jan-2020

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

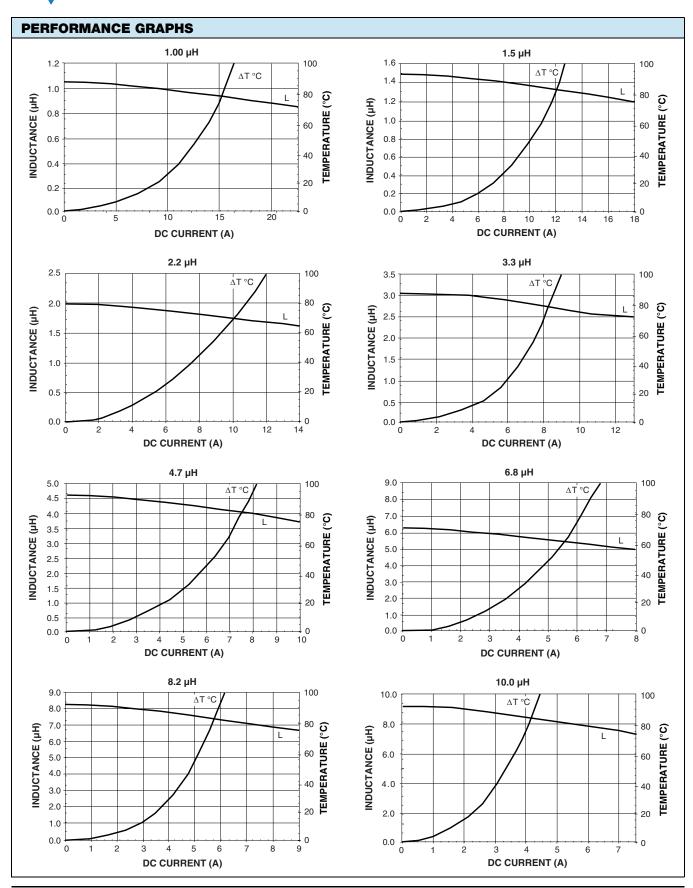






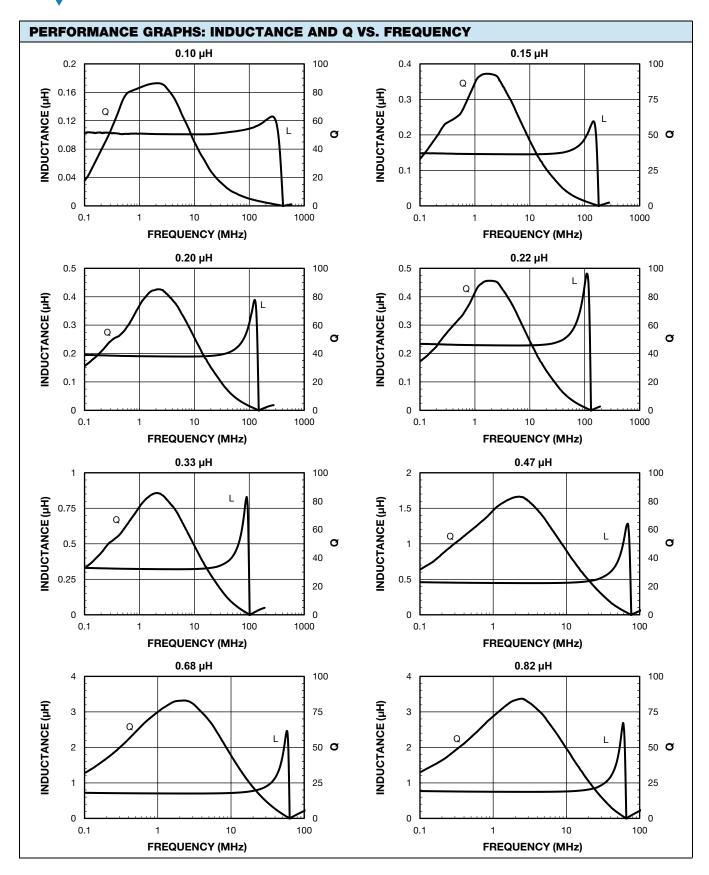








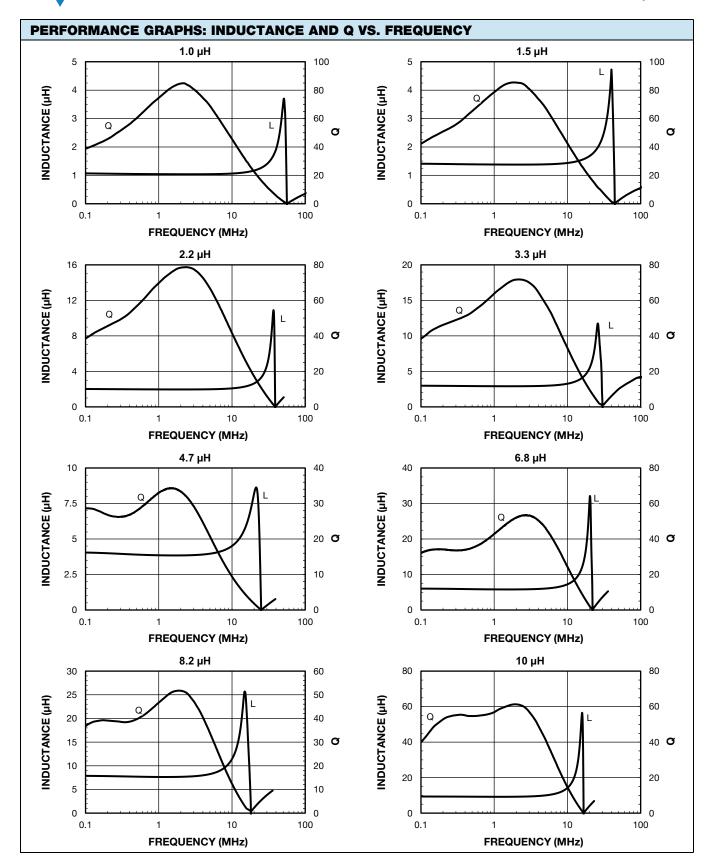




IHLM-2525CZ-01



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