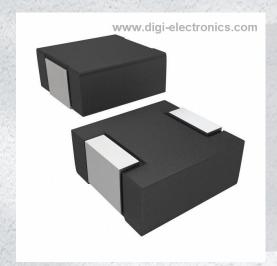


# IHLP2525CZER4R7M51 Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number IHLP2525CZER4R7M51-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLP2525CZER4R7M51

**Description** FIXED IND 4.7UH 5.6A 38.4MOHM SM

Detailed Description 4.7 µH Shielded Molded Inductor 5.6 A 38.4mOhm

Max Nonstandard



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



# **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:		
IHLP2525CZER4R7M51	Vishay Dale		
Series:	Product Status:		
IHLP-2525CZ-51	Active		
Type:	Material - Core:		
Molded			
Inductance:	Tolerance:		
4.7 μΗ	±20%		
Current Rating (Amps):	Current - Saturation (Isat):		
5.6 A	5.6A		
Shielding:	DC Resistance (DCR):		
Shielded	38.4mOhm Max		
Q @ Freq:	Frequency - Self Resonant:		
	25.5MHz		
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
HTSUS:	





Vishay Dale

RoHS

COMPLIANT

HALOGEN

**GREEN** 

(5-2008)

# IHLP® Commercial Inductors, High Temperature (155 °C) Series



### **LINKS TO ADDITIONAL RESOURCES**





STANDARD ELECTRICAL SPECIFICATIONS							
L <sub>0</sub> 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)		
0.33	3.25	3.48	22.0	16.0	112		
0.47	3.87	4.14	20.0	14.0	82.4		
0.68	5.38	5.76	16.5	17.0	56.1		
0.82	6.75	7.22	13.8	16.8	68.6		
1.0	7.90	8.45	12.0	13.0	53.2		
1.5	12.3	13.2	10.6	11.6	45.9		
2.2	17.10	18.30	8.1	10.8	31.2		
3.3	26.50	28.40	6.8	8.3	28.6		
4.7	35.90	38.40	5.6	5.6	25.5		
5.6	42.60	45.60	5.3	4.8	22.8		
6.8	53.80	57.60	4.4	4.4	19.6		
10	71.90	76.90	4.0	2.9	14.0		
15	98.9	105.9	3.7	2.8	10.4		
22	163.0	174.0	2.8	2.2	8.3		

#### Notes

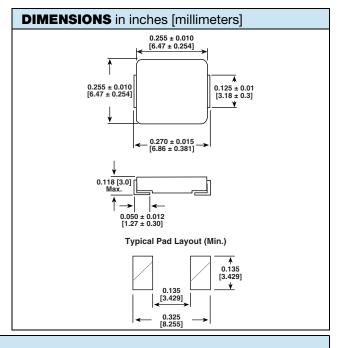
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application
- Rated operating voltage (across inductor) = 75 V
- <sup>(1)</sup> DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- $^{(2)}\,$  DC current (A) that will cause  $L_0$  to drop approximately 20 %

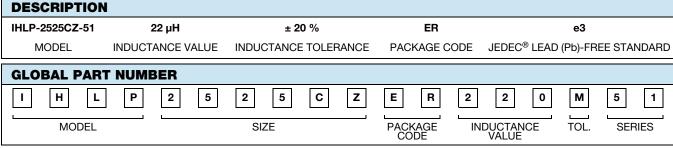
#### **FEATURES**

- High temperature, up to 155 °C
- Shielded construction
- Excellent DC/DC energy storage up to 1 MHz to 2 MHz. Filter inductor applications up the SRF (see Standard Electrical Specifications table).
- 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 <a href="https://www.vishav.com/doc?99912"><u>www.vishav.com/doc?99912</u></a>

#### **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)



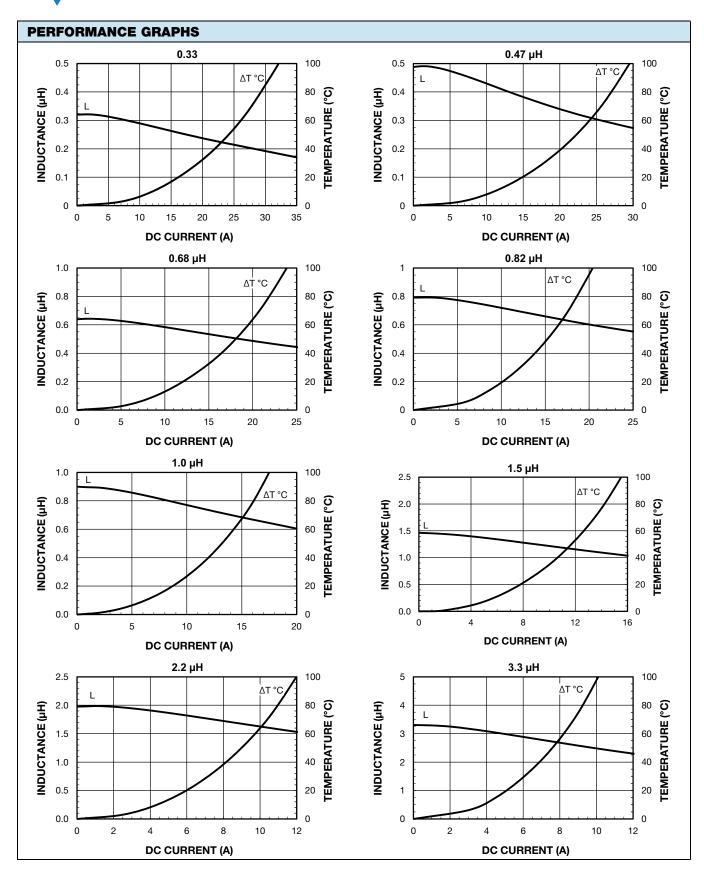


PATENT(S): www.vishay.com/patents

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

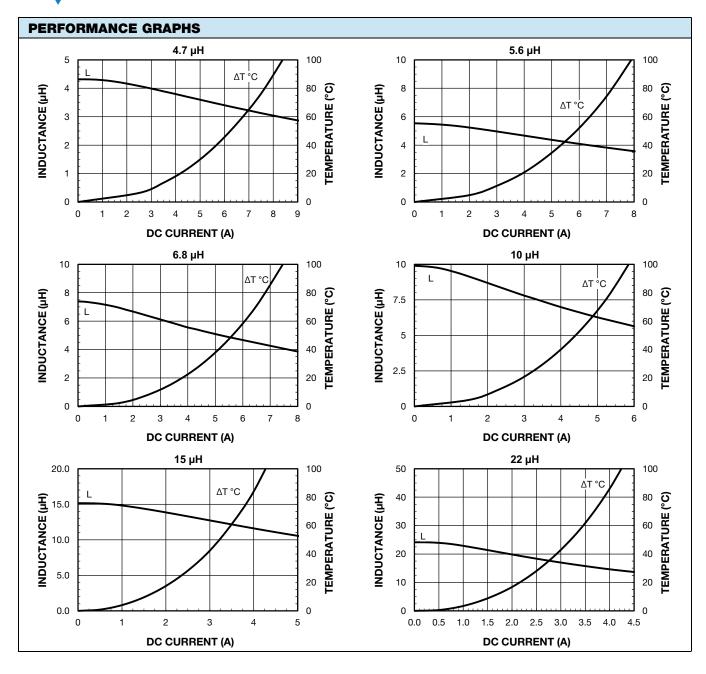






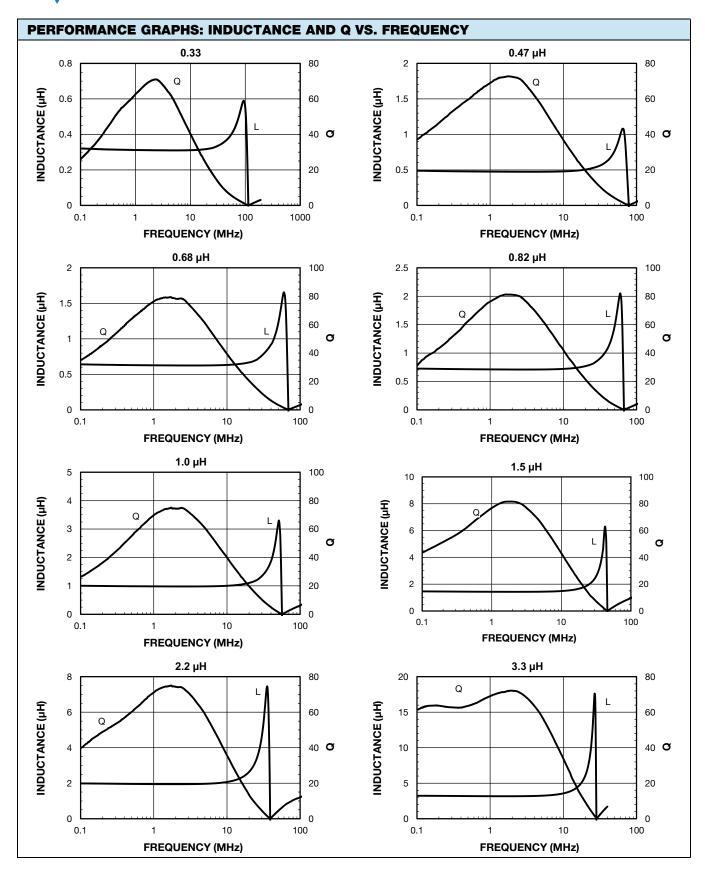






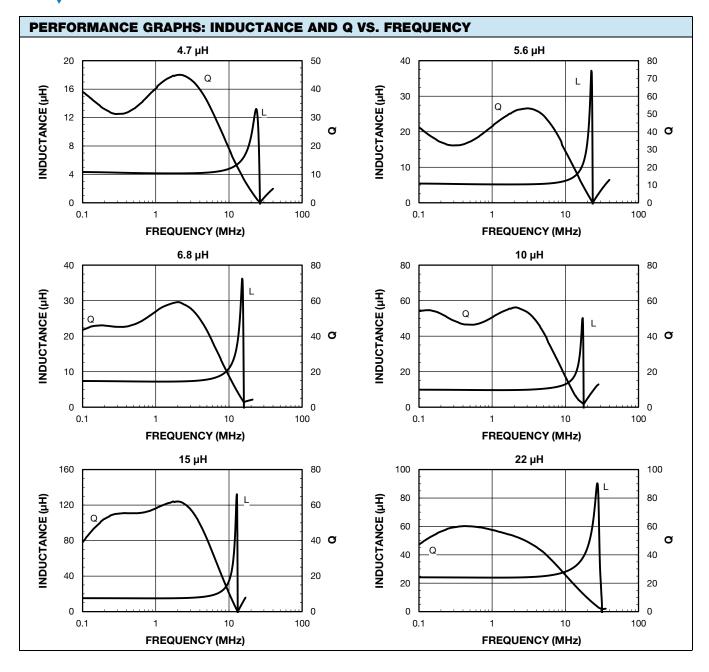














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