

IHLP2525CZER6R8M01 Datasheet



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DiGi Electronics Part Number IHLP2525CZER6R8M01-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLP2525CZER6R8M01

Description FIXED IND 6.8UH 4.5A 60 MOHM SMD

Detailed Description 6.8 µH Shielded Molded Inductor 4.5 A 60mOhm M

ax Nonstandard



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IHLP2525CZER6R8M01	Vishay Dale
Series:	Product Status:
IHLP-2525CZ-01	Active
Type:	Material - Core:
Molded	
Inductance:	Tolerance:
6.8 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
4.5 A	8A
Shielding:	DC Resistance (DCR):
Shielded	60mOhm 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
HTSUS:	





Vishay Dale

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	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	4.2	17.5	26	75	
0.68	5	5.5	15.5	25	62	
0.82	6.7	8	13	24	60	
1.0	9	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 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)
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- COMPLIANT
 HALOGEN
 FREE

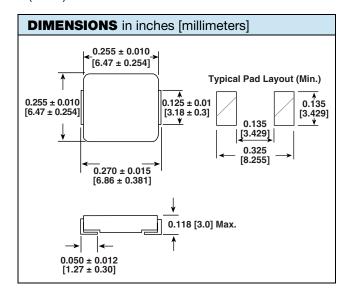
 GREEN
 (5-2008)

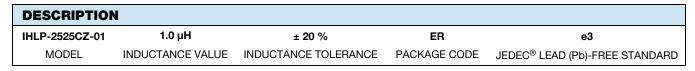
RoHS

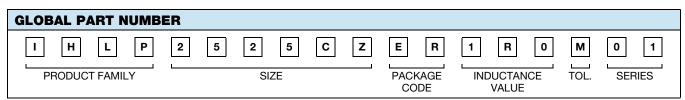
- Ultra low buzz noise, due to composite construction
- IHLP design; PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

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 (FPGA)



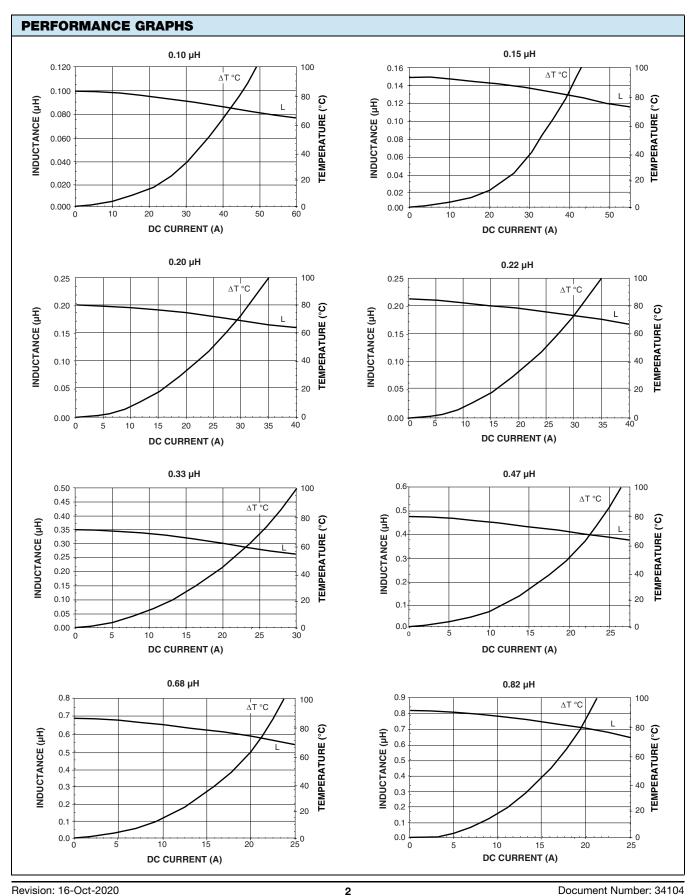




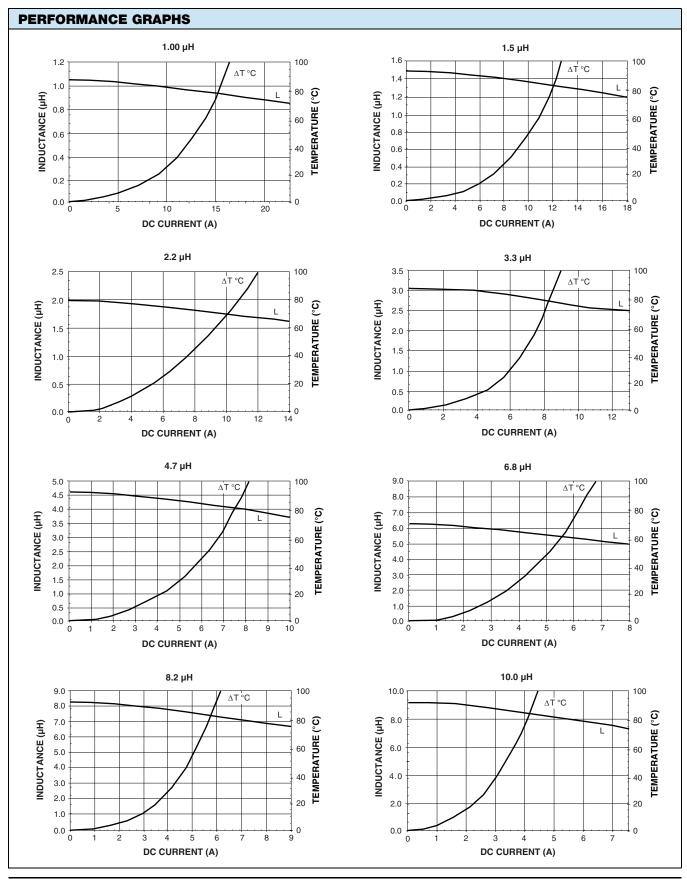
PATENT(S): www.vishay.com/patents

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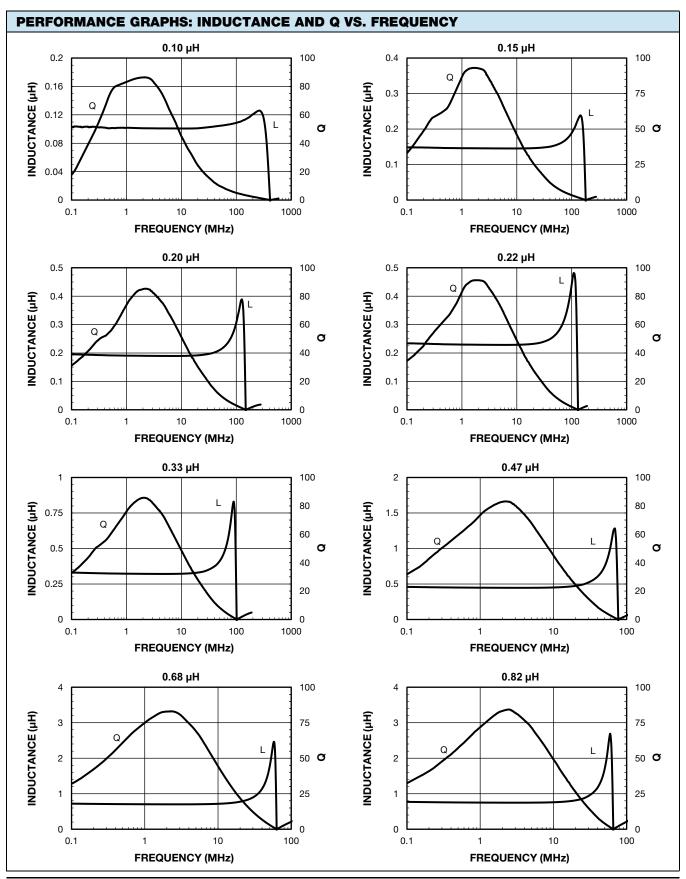




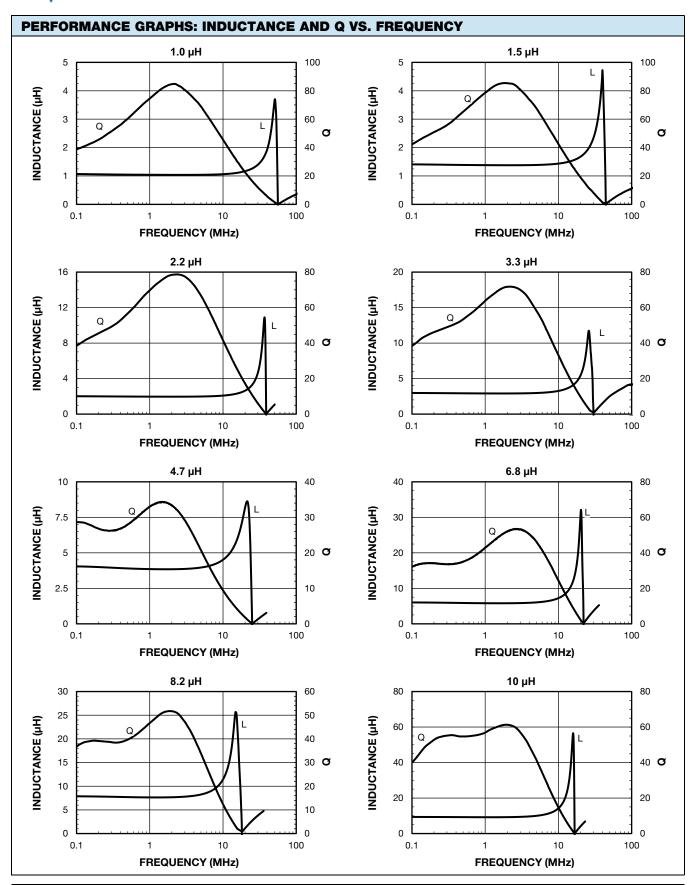














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