# **IDC-2512**

Vishay Dale

FREE





www.vishay.com

### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 1.0 µH to 1000 µH, tested at 0.1 V<sub>BMS</sub> Inductance Tolerance: 20 %, tighter tolerance available upon request

Operating Temperature: -40 °C to +125 °C Resistance to Solder Heat: 260 °C for 10 s

## STANDADD ELECTRICAL SDECIEICATIONS

## **FEATURES**

- · High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- RoHS Material categorization: COMPLIANT for definitions of compliance please see <u>www.vishay.com/doc?99912</u> HALOGEN

## **MECHANICAL SPECIFICATIONS**

Core: ferrite Wire: enamelled copper wire Base: ceramic Terminals: gold over nickel Adhesive: epoxy resin

INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I <sub>SAT</sub> (A)	I <sub>RMS</sub> (A)	
1.0	± 20 %	100	0.05	2.9	2.9	
1.5	± 20 %	100	0.05	2.6	2.8	
2.2	± 20 %	100	0.07	2.3	2.4	
3.3	± 20 %	100	0.08	2.0	2.0	
4.7	± 20 %	100	0.09	1.5	1.5	
6.8	± 20 %	100	0.13	1.2	1.4	
10	± 20 %	100	0.16	1.1	1.1	
15	± 20 %	100	0.23	0.90	1.2	
22	± 20 %	100	0.37	0.70	0.80	
33	± 20 %	100	0.51	0.58	0.60	
47	± 20 %	100	0.64	0.50	0.50	
68	± 20 %	100	0.86	0.40	0.40	
100	± 20 %	100	1.27	0.31	0.30	
150	± 20 %	100	2.00	0.27	0.25	
220	± 20 %	100	3.11	0.22	0.20	
330	± 20 %	100	3.80	0.18	0.16	
470	± 20 %	100	5.06	0.16	0.15	
680	± 20 %	100	9.20	0.14	0.12	
1000	± 20 %	100	13.8	0.10	0.07	

#### Notes

Inductance drop = 10 % typ. at I<sub>SAT</sub>

 $\Delta T = 15 \ ^{\circ}C \text{ typ. at } I_{RMS}$ 

DIMENSIONS in inches [millimeters]												
	Max.		D Max	۲.		<u>↓</u> E _ ↓		J J I → H				
A (Max.)	B (Max.)	D (Max.)	E	F	G	н	I	J				
0.260 [6.60]	0.175 [4.45]	0.115 [2.92]	0.050 [1.27]	0.040 [1.02]	0.170 [4.32]	0.055 [1.40]	0.160 [4.06]	0.140 [3.56]				
DESCRIPTION												
IDC-2512 MODEL	<b>10 μH</b> INDUCTANCE	VALUE INC	± <b>20 %</b> DUCTANCE TOL	FRANCE F	ER PACKAGE CODE			STANDARD				
GLOBAL PART NUMBER												
GLOBAL	PART NUM	BER										
	PART NUM	2	5 1 SIZE	2	E R ACKAGE CODE	I 0 INDUCTA		M TOL.				

Revision: 21-Apr-17

For technical questions, contact: magnetics@vishay.com

ocument Number: 34006

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishav.com/doc?91000



Vishay

# Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Vishay:

 IDC2512ER1R0M
 IDC2512ER6R8M
 IDC2512ER330M
 IDC2512ER102M
 IDC2512ER150M
 IDC2512ER221M

 IDC2512ER2R2M
 IDC2512ER3R3M
 IDC2512ER1R5M
 IDC2512ER4R7M
 IDC2512ER680M
 IDC2512ER101M

 IDC2512ER220M
 IDC2512ER470M
 IDC2512ER100M
 IDC2512ER331M
 IDC2512ER151M
 IDC2512ER471M

 IDC2512ER681M
 IDC2512ER470M
 IDC2512ER100M
 IDC2512ER331M
 IDC2512ER471M