



**THE DATASHEET OF
IMCH1812ER100K**



Wirewound, Surface Mount, Molded Inductors



STANDARD ELECTRICAL SPECIFICATIONS						
IND. (μH)	TOL.	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) ⁽¹⁾
		L & Q				
1.0	± 10 %	7.96	10	200	0.11	1050
1.2	± 10 %	7.96	10	160	0.12	1000
1.5	± 10 %	7.96	10	130	0.15	950
1.8	± 10 %	7.96	10	100	0.16	900
2.2	± 10 %	7.96	10	60.0	0.18	850
2.7	± 10 %	7.96	10	60.0	0.20	800
3.3	± 10 %	7.96	10	45.0	0.22	750
3.9	± 10 %	7.90	10	40.0	0.24	700
4.7	± 10 %	7.96	10	35.0	0.3	650
5.6	± 10 %	7.96	10	30.0	0.3	650
6.8	± 10 %	7.96	10	28.0	0.4	600
8.2	± 10 %	7.96	10	25.0	0.4	600
10	± 10 %	2.52	10	22.0	0.5	550
12	± 10 %	2.52	10	21.0	0.6	500
15	± 10 %	2.52	10	20.0	0.7	450
18	± 10 %	2.52	10	19.0	0.8	400
22	± 10 %	2.52	10	18.0	0.9	370
27	± 10 %	2.52	10	16.0	1.2	330
33	± 10 %	2.52	10	14.0	1.4	300
39	± 10 %	2.52	10	12.0	1.6	280
47	± 10 %	2.52	10	11.5	1.9	260
56	± 10 %	2.52	10	11.0	2.2	240
68	± 10 %	2.52	10	10.0	2.6	220
82	± 10 %	2.52	10	9.0	3.5	200
100	± 10 %	0.796	20	8.0	4.0	180
120	± 10 %	0.796	20	6.5	4.5	160
150	± 10 %	0.796	20	7.0	6.5	140
180	± 10 %	0.796	20	5.5	7.5	120
220	± 10 %	0.796	20	5.5	9	120
270	± 10 %	0.796	20	5.0	11	100
330	± 10 %	0.796	20	4.0	13	90

Note

⁽¹⁾ Rated DC current based on the maximum temperature rise, not to exceed 40 °C at + 85 °C ambient

FEATURES

- Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 500/reel, EIA-481
- Compatible with vapor phase, infrared and wave soldering methods
- Compliant to RoHS Directive 2002/95/EC


RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS
Inductance Range: 1 μH to 330 μH

Inductance Tolerance: ± 10 %

Operating Temperature: - 40 °C to + 85 °C

Storage Temperature: - 40 °C to + 100 °C

TEST EQUIPMENT

- L & Q: H/P 4285A
- SRF: H/P 4286A
- DCR: H/P 34401

DIMENSIONS in inches [millimeters]

A	B	C
0.177 ± 0.012 [4.5 ± 0.3]	0.126 ± 0.012 [3.2 ± 0.3]	0.126 ± 0.012 [3.2 ± 0.3]
D	E	
0.055 ± 0.016 [1.4 ± 0.4]	0.035 ± 0.008 [0.9 ± 0.2]	

PART MARKING

- Inductance value

DESCRIPTION

IMCH-1812	22 μH	± 10 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	M	C	H	1	8	1	2	E	R	2	2	0	K
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.



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.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

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.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View IMCH1812ER100K on WIN SOURCE](#)

 [Vishay Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management