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[IMCH1812ER1R2K](#)

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IMCH-1812

Vishay Dale

Wirewound, Surface Mount, Molded Inductors



STANDARD ELECTRICAL SPECIFICATIONS

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

Inductance Tolerance: $\pm 10\%$

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 \pm 0.012 [4.5 \pm 0.3]	0.126 \pm 0.012 [3.2 \pm 0.3]	0.126 \pm 0.012 [3.2 \pm 0.3]
D	E	
0.055 \pm 0.016 [1.4 \pm 0.4]	0.035 \pm 0.008 [0.9 \pm 0.2]	

PART MARKING

- Inductance value

DESCRIPTION

IMCH-1812	22 μH	$\pm 10\%$	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.



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