IMCH-1812

Vishay Dale

Surface Mount, Molded Inductors





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

Pb-free

RoHS COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance: 1 uH to 330 uH
Inductance Tolerance: ± 10 %
Operating Temperature: - 25 °C to 85 °C Storage
Temperature: - 40 °C to + 100 °C

TEST EQUIPMENT

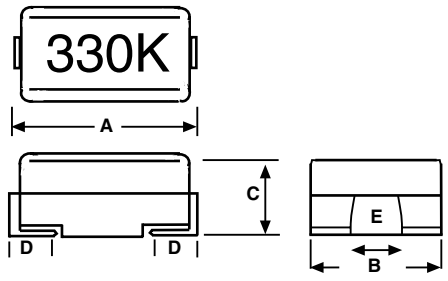
L & Q: H/P 4285A
SRF: H/P 4286A
DCR: H/P 34401

STANDARD ELECTRICAL SPECIFICATIONS

IND. (µH)	TOL.*	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED* DC CURRENT (mA)
1.0	± 10 %	10	7.96	200	0.11	1050
1.2	± 10 %	10	7.96	160	0.12	1000
1.5	± 10 %	10	7.96	130	0.15	950
1.8	± 10 %	10	7.96	100	0.16	900
2.2	± 10 %	10	7.96	60.0	0.18	850
2.7	± 10 %	10	7.96	60.0	0.20	800
3.3	± 10 %	10	7.96	45.0	0.22	750
3.9	± 10 %	10	7.9	40.0	0.24	700
4.7	± 10 %	10	7.96	35.0	0.3	650
5.6	± 10 %	10	7.96	30.0	0.3	650
6.8	± 10 %	10	7.96	28.0	0.4	600
8.2	± 10 %	10	7.96	25.0	0.4	600
10	± 10 %	10	2.52	22.0	0.5	550
12	± 10 %	10	2.52	21.0	0.6	500
15	± 10 %	10	2.52	20.0	0.7	450
18	± 10 %	10	2.52	19.0	0.8	400
22	± 10 %	10	2.52	18.0	0.9	370
27	± 10 %	10	2.52	16.0	1.2	330
33	± 10 %	10	2.52	14.0	1.4	300
39	± 10 %	10	2.52	12.0	1.6	280
47	± 10 %	10	2.52	11.5	1.9	260
56	± 10 %	10	2.52	11.0	2.2	240
68	± 10 %	10	2.52	10.0	2.6	220
82	± 10 %	10	2.52	9.0	3.5	200
100	± 10 %	20	0.796	8.0	4.0	180
120	± 10 %	20	0.796	6.5	4.5	160
150	± 10 %	20	0.796	7.0	6.5	140
180	± 10 %	20	0.796	5.5	7.5	120
220	± 10 %	20	0.796	5.5	9	120
270	± 10 %	20	0.796	5.0	11	100
330	± 10 %	20	0.796	4.0	13	90

*Rated DC Current based on the maximum temperature rise, not to exceed 40 °C at + 85 °C ambient.

DIMENSIONS in inches [millimeters]



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

EIA PART MARKING

- Inductance Value

DESCRIPTION

IMCH-1812	22 µF	± 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
MODEL				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.

For technical questions, contact: magnetics@vishay.com

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