

Wirewound, Surface-Mount, Molded Inductors



FEATURES

- Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 500/reel, EIA-481
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance range: 1 μ H to 680 μ H

Inductance tolerance: \pm 10 %

Operating temperature: -40 °C to +125 °C

Storage temperature: -40 °C to +125 °C

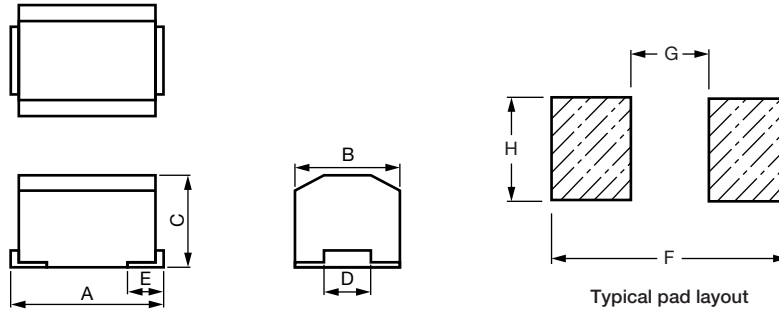
TEST EQUIPMENT

- L and Q: HP 4194A
- SRF: HP 4291A
- DCR: CH-502AC

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	IND. (μ H)	TOL. (%)	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) ⁽¹⁾
			L AND Q				
IMCH1812ER1R0K	1.0	\pm 10	7.96	10	180	0.11	1050
IMCH1812ER1R2K	1.2	\pm 10	7.96	10	160	0.12	1000
IMCH1812ER1R5K	1.5	\pm 10	7.96	10	130	0.15	950
IMCH1812ER1R8K	1.8	\pm 10	7.96	10	100	0.16	900
IMCH1812ER2R2K	2.2	\pm 10	7.96	10	80.0	0.18	850
IMCH1812ER2R7K	2.7	\pm 10	7.96	10	60.0	0.20	800
IMCH1812ER3R3K	3.3	\pm 10	7.96	10	45.0	0.22	750
IMCH1812ER3R9K	3.9	\pm 10	7.90	10	40.0	0.24	700
IMCH1812ER4R7K	4.7	\pm 10	7.96	10	35.0	0.27	650
IMCH1812ER5R6K	5.6	\pm 10	7.96	10	30.0	0.3	650
IMCH1812ER6R8K	6.8	\pm 10	7.96	10	28.0	0.35	600
IMCH1812ER8R2K	8.2	\pm 10	7.96	10	25.0	0.4	600
IMCH1812ER100K	10	\pm 10	2.52	10	22.0	0.5	550
IMCH1812ER120K	12	\pm 10	2.52	10	21.0	0.6	500
IMCH1812ER150K	15	\pm 10	2.52	10	20.0	0.7	450
IMCH1812ER180K	18	\pm 10	2.52	10	19.0	0.8	400
IMCH1812ER220K	22	\pm 10	2.52	10	18.0	0.9	370
IMCH1812ER270K	27	\pm 10	2.52	10	16.0	1.2	330
IMCH1812ER330K	33	\pm 10	2.52	10	14.0	1.4	300
IMCH1812ER390K	39	\pm 10	2.52	10	12.0	1.6	280
IMCH1812ER470K	47	\pm 10	2.52	10	11.5	1.9	260
IMCH1812ER560K	56	\pm 10	2.52	10	11.0	2.2	240
IMCH1812ER680K	68	\pm 10	2.52	10	10.0	2.6	220
IMCH1812ER820K	82	\pm 10	2.52	10	9.0	3.5	200
IMCH1812ER101K	100	\pm 10	0.796	20	8.0	4.0	180
IMCH1812ER121K	120	\pm 10	0.796	20	7.5	4.5	160
IMCH1812ER151K	150	\pm 10	0.796	20	7.0	6.5	140
IMCH1812ER181K	180	\pm 10	0.796	20	6.5	7.5	120
IMCH1812ER221K	220	\pm 10	0.796	20	5.5	9	120
IMCH1812ER271K	270	\pm 10	0.796	20	5.0	11	100
IMCH1812ER331K	330	\pm 10	0.796	20	4.0	13	90
IMCH1812ER391K	390	\pm 10	0.796	20	3.0	14	85
IMCH1812ER471K	470	\pm 10	0.796	20	3.0	16	75
IMCH1812ER561K	560	\pm 10	0.796	20	3.0	21	70
IMCH1812ER681K	680	\pm 10	0.796	20	2.5	24.2	65

Note
⁽¹⁾ Rated current will cause the inductance drop within 10 %

DIMENSIONS in inches [millimeters]


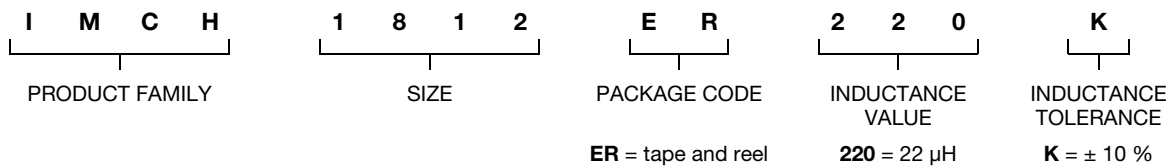
A	B	C	D	E	F	G	H
0.177 ± 0.012 [4.5 ± 0.3]	0.126 ± 0.008 [3.2 ± 0.2]	0.126 ± 0.008 [3.2 ± 0.2]	0.047 ± 0.008 [1.2 ± 0.2]	0.039 ± 0.008 [1.0 ± 0.2]	0.205 [5.2]	0.087 [2.2]	0.063 [1.6]

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




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