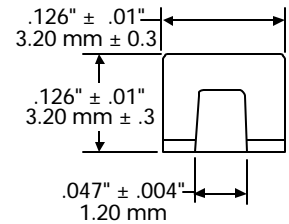
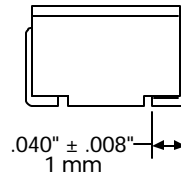
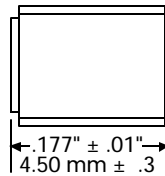
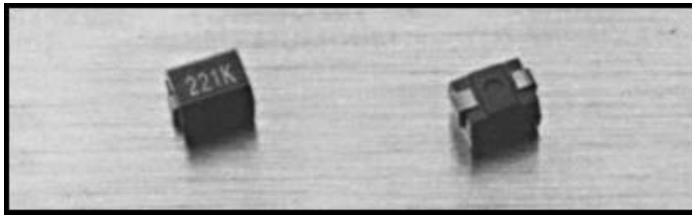
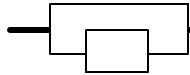


LCM1812R Molded Chip Inductor



FEATURES

- Handles 15% to 55% more current than other chip inductors in the same size
- Ideal for high power use
- Extremely high reliability in a wide temperature and humidity range
- Superior Q
- Excellent for flow, re-flow soldering, and soldering iron

APPLICATIONS

- LC resonant circuits such as oscillators and signal generators
- Impedance Matching
- Circuit isolation
- RF filters
- Disk drives and computer peripherals
- Audio equipment
- Video equipment
- TV and radio
- Telecommunication equipment

CHARACTERISTICS

INDUCTANCE RANGE .10 μ H to 470 μ H. Values under .10 μ H are available by special order.

TOLERANCE 20% From .18 μ H to .82 μ H. 10% from 1.0 μ H to 470 μ H. Also available in 5% tolerance for values from 10 μ H to 470 μ H

CURRENT RATING Based on current flow and temperature rise of 20°C maximum at 80°C ambient temperature.

TESTING PROCEDURE Inductance, Q, and SRF are measured with HP4191A Impedance Analyzer with 16092A Test Clip at specified frequency. DCR measured with digital milliohms meter

DIELECTRIC STRENGTH 500 volts RMS at sea level.

OPERATING TEMPERATURE -25°C to +85°C.

STORAGE TEMPERATURE 45°C to 100°C in original tape and reel package

SOLDERING HEAT RESISTANCE 250°C for 3-5 seconds after 12°C preheat cycle for 5 minutes.

SOLDERABILITY 95% of the terminal is covered with solder. Please refer to page 2 for soldering recommendations.

RESISTANCE TO SOLVENT No change in appearance when dipped into alcohol or freon for 3 minutes.

MARKING Part is marked with inductance value in EIA code.

PACKAGING Tape and Reel only.

PART NUMBER	INDUCTANCE (μ H)	INDUCTANCE TEST FREQUENCY (MHz)	TOLERANCE (\pm %)	Q MINIMUM	SELF RESONANT FREQUENCY MINIMUM (MHz)	DC RESISTANCE OHMS MAXIMUM (W)	RATED DC CURRENT MAX (mA)
LCM1812R-R10M	.10	25.2	20	35	300.0	0.18	800
LCM1812R-R12M	.12	25.2	20	35	280.0	0.20	770
LCM1812R-R15M	.15	25.2	20	35	250.0	0.22	730
LCM1812R-R18M	.18	25.2	20	35	220.0	0.24	700
LCM1812R-R22M	.22	25.2	20	40	200.0	0.25	665
LCM1812R-R27M	.27	25.2	20	40	180.0	0.26	635
LCM1812R-R33M	.33	25.2	20	40	165.0	0.28	605
LCM1812R-R39M	.39	25.2	20	40	160.0	0.30	575
LCM1812R-R47M	.47	25.2	20	40	145.0	0.32	545
LCM1812R-R56M	.56	25.2	20	40	140.0	0.36	520
LCM1812R-R68M	.68	25.2	20	40	135.0	0.40	500
LCM1812R-R82M	.82	25.2	20	40	130.0	0.45	475
LCM1812R-1R0K	1.0	7.96	10	50	100.0	0.50	450
LCM1812R-1R2K	1.2	7.96	10	50	80.0	0.55	430
LCM1812R-1R5K	1.5	7.96	10	50	70.0	0.60	410
LCM1812R-1R8K	1.8	7.96	10	50	60.0	0.65	390
LCM1812R-2R2K	2.2	7.96	10	50	55.0	0.70	380
LCM1812R-2R7K	2.7	7.96	10	50	50.0	0.75	370
LCM1812R-3R3K	3.3	7.96	10	50	45.0	0.80	355
LCM1812R-3R9K	3.9	7.96	10	50	40.0	0.90	330
LCM1812R-4R7K	4.7	7.96	10	50	35.0	1.00	315
LCM1812R-5R6K	5.6	7.96	10	50	33.0	1.10	300
LCM1812R-6R8K	6.8	7.96	10	50	27.0	1.20	285
LCM1812R-8R2K	8.2	7.96	10	50	25.0	1.40	270
LCM1812R-100K	10	2.52	10	50	20.0	1.60	250
LCM1812R-120K	12	2.52	10	50	18.0	2.00	225
LCM1812R-150K	15	2.52	10	50	17.0	2.50	200
LCM1812R-180K	18	2.52	10	50	15.0	2.80	190
LCM1812R-220K	22	2.52	10	50	13.0	3.20	180
LCM1812R-270K	27	2.52	10	50	12.0	3.60	170
LCM1812R-330K	33	2.52	10	50	11.0	4.00	160
LCM1812R-390K	39	2.52	10	50	10.0	4.50	150
LCM1812R-470K	47	2.52	10	50	10.0	5.00	140
LCM1812R-560K	56	2.52	10	50	9.0	5.50	135
LCM1812R-680K	68	2.52	10	50	9.0	6.00	130
LCM1812R-820K	82	2.52	10	50	8.0	7.00	120
LCM1812R-101K	100	0.796	10	40	8.0	8.00	110
LCM1812R-121K	120	0.796	10	40	6.0	8.00	110
LCM1812R-151K	150	0.796	10	40	5.0	9.00	105
LCM1812R-181K	180	0.796	10	40	5.0	9.50	102
LCM1812R-221K	220	0.796	10	40	4.0	10.00	100
LCM1812R-271K	270	0.796	10	40	4.0	12.00	92
LCM1812R-331K	330	0.796	10	40	3.5	14.00	85
LCM1812R-391K	390	0.796	10	40	3.0	16.00	80
LCM1812R-471K	470	0.796	10	40	3.0	26.00	62
LCM1812R-561K	560	0.796	10	30	3.0	30.00	50
LCM1812R-681K	680	0.796	10	30	3.0	30.00	50
LCM1812R-821K	820	0.796	10	30	2.5	35.00	30
LCM1812R-102K	1000	0.252	10	30	2.5	40.00	30