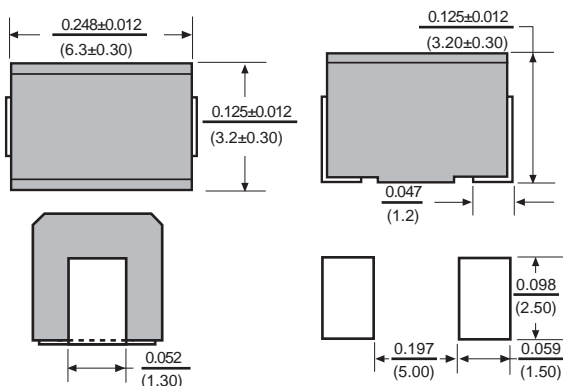


# MC50 Molded Chip Inductors



Dimensions: Inches  
(mm)



## Features

- 2512 Molded Chip Inductor
- Excellent Solder Heat Resistance
- Terminals have high resistance to pull forces

## Electrical

**Inductance Range:** .22 $\mu$ h ~ 1000 $\mu$ h

**Tolerance:** 20% from .22 $\mu$ h ~ .82 $\mu$ h  
10% from 1.0 $\mu$ h ~ 1000 $\mu$ h

Also available in 5% & 20%

### Test Frequency:

.22 $\mu$ h ~ .1.0 $\mu$ h measured at 25.2Mhz,

1.2 $\mu$ h ~ 10 $\mu$ h measured at 7.96Mhz,

12 $\mu$ h ~ 100 $\mu$ h measured at 2.52Mhz,

120 $\mu$ h ~ 1000 $\mu$ h measured at .796Mhz,

**Operating Temp:** -20°C ~ +85°C @ 75% RH

**IDC:** The current at which inductance will drop no more than 10% of its original value or a temperature rise of  $\Delta T=20^{\circ}\text{C}$  whichever occurs first.

## Test Equipment

**(L/Q):** HP4285A + HP16034E

**(RDC):** Chen Hwa 502

**(SRF):** HP4291B

## Physical

**Packaging:** 2000 pieces per, 13" reel

**Marking:** EIA Inductance code

Allied Part Number	Inductance ( $\mu$ h)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	IDC (mA)
MC50-R22M-RC	.22	20	40	25.2	380	0.32	1150
MC50-R27M-RC	.27	20	40	25.2	360	0.36	450
MC50-R33M-RC	.33	20	40	25.2	300	0.40	450
MC50-R39M-RC	.39	20	40	25.2	250	0.45	450
MC50-R47M-RC	.47	20	40	25.2	220	0.50	450
MC50-R56M-RC	.56	20	40	25.2	180	0.55	450
MC50-R68M-RC	.68	20	40	25.2	160	0.60	450
MC50-R82M-RC	.82	20	40	25.2	140	0.67	450
MC50-1R0K-RC	1.0	10	40	25.2	100	0.50	450
MC50-1R2K-RC	1.2	10	40	7.96	80	0.55	430
MC50-1R5K-RC	1.5	10	45	7.96	70	0.60	410
MC50-1R8K-RC	1.8	10	50	7.96	60	0.65	390
MC50-2R2K-RC	2.2	10	50	7.96	55	0.70	380
MC50-2R7K-RC	2.7	10	50	7.96	50	0.75	370
MC50-3R3K-RC	3.3	10	50	7.96	45	0.80	355
MC50-3R9K-RC	3.9	10	45	7.96	40	0.90	330
MC50-4R7K-RC	4.7	10	45	7.96	35	1.00	315
MC50-5R6K-RC	5.6	10	45	7.96	33	1.10	300
MC50-6R8K-RC	6.8	10	40	7.96	27	1.20	285
MC50-8R2K-RC	8.2	10	40	7.96	25	1.40	270
MC50-10K-RC	10	10	40	7.96	20	1.60	250
MC50-120K-RC	12	10	45	2.52	18	2.00	225
MC50-150K-RC	15	10	50	2.52	17	2.50	200
MC50-180K-RC	18	10	50	2.52	15	2.80	190
MC50-220K-RC	22	10	50	2.52	13	3.20	180
MC50-270K-RC	27	10	50	2.52	12	3.60	170
MC50-330K-RC	33	10	50	2.52	11	4.00	160
MC50-390K-RC	39	10	50	2.52	10	4.50	150
MC50-470K-RC	47	10	50	2.52	10	5.00	140
MC50-560K-RC	56	10	50	2.52	9.0	5.50	135
MC50-680K-RC	68	10	50	2.52	9.0	6.00	130
MC50-820K-RC	82	10	50	2.52	8.0	7.00	120
MC50-101K-RC	100	10	50	2.52	8.0	8.00	110
MC50-121K-RC	120	10	50	.796	6.0	8.00	110
MC50-151K-RC	150	10	50	.796	5.0	9.00	105
MC50-181K-RC	180	10	50	.796	5.0	9.50	102
MC50-221K-RC	220	10	50	.796	4.0	12.0	100
MC50-271K-RC	270	10	50	.796	4.0	18.0	92
MC50-331K-RC	330	10	50	.796	3.5	20.0	85
MC50-391K-RC	390	10	50	.796	3.0	23.0	80
MC50-471K-RC	470	10	50	.796	3.0	26.0	62
MC50-561K-RC	560	10	50	.796	3.0	30.0	50
MC50-681K-RC	680	10	50	.796	3.0	40.0	50
MC50-821K-RC	820	10	50	.796	2.5	45.0	30
MC50-102K-RC	1000	10	50	.796	2.5	50.0	30

Available in tighter tolerances.  
All specifications subject to change without notice.