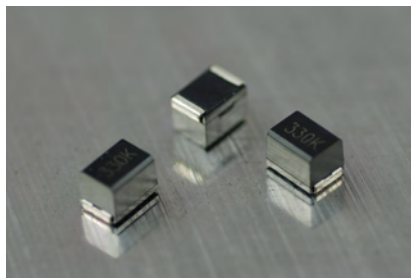
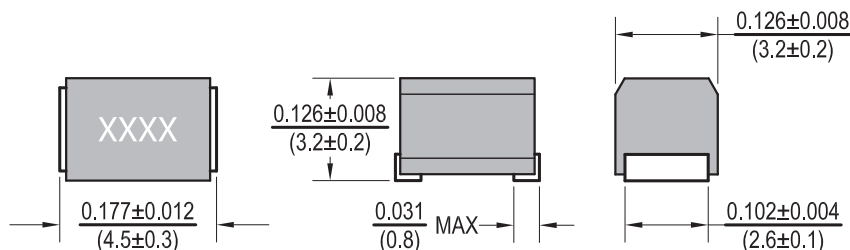




# Molded Chip Inductors MC30A



Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



Allied Part Number	Inductance (μh)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC (mA)
MC30A-100K-RC	10	10	50	2.52	20	1.6	250
MC30A-120K-RC	12	10	50	2.52	18	2	225
MC30A-150K-RC	15	10	50	2.52	17	2.5	200
MC30A-180K-RC	18	10	50	2.52	15	2.8	190
MC30A-220K-RC	22	10	50	2.52	13	3.2	180
MC30A-270K-RC	27	10	50	2.52	12	3.6	170
MC30A-330K-RC	33	10	50	2.52	11	4	160
MC30A-390K-RC	39	10	50	2.52	10	4.5	150
MC30A-470K-RC	47	10	50	2.52	10	5	140
MC30A-560K-RC	56	10	50	2.52	9	5.5	135
MC30A-680K-RC	68	10	50	2.52	9	6	130
MC30A-820K-RC	82	10	50	2.52	8	7	120
MC30A-101K-RC	100	10	40	.796	8	8	110
MC30A-121K-RC	120	10	40	.796	6	8	110
MC30A-151K-RC	150	10	40	.796	5	9	105
MC30A-181K-RC	180	10	40	.796	5	9.5	102
MC30A-221K-RC	220	10	40	.796	4	10	100
MC30A-271K-RC	270	10	40	.796	4	12	92
MC30A-331K-RC	330	10	40	.796	3.5	14	85
MC30A-391K-RC	390	10	40	.796	3	16	80
MC30A-471K-RC	470	10	40	.796	3	26	62
MC30A-561K-RC	560	10	30	.796	3	30	50
MC30A-681K-RC	680	10	30	.796	3	30	50
MC30A-821K-RC	820	10	30	.796	2.5	35	30
MC30A-102K-RC	1000	10	30	2.52	2.5	40	30

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

## Features

- 1812 Molded Chip Inductor
- Excellent Solder Heat Resistance
- Welded internal lead frame to coil wire connection

## Electrical

**Inductance Range:** 10μh ~ 1000μh

**Tolerance:** 10% over entire range  
Also available in 5% & 20%

**Test Frequency:** 10μh ~ 82μh measured at 2.52MHz, 100μh ~ 820μh measured at .796MHz

**Operating Temp:** -25°C ~ +85°C @ 75% RH

**IDC:** The current at which inductance will drop no more than 10% of its original value at 1MHz, 1v

**L/Q:** Test OCS @ 200mv

## Resistance to Soldering Heat

Pre-heating: 150°C, 1min

Solder Composition: Sn/Ag3.0/Cu0.5

Solder Temperature: 245 ± 5°C

Immersion Time: 4 ± 1sec

## Test Equipment

**(L/Q):** .01μh~82μh HP4287A + HP16034E

**(L/Q):** 100μh~470μh HP4292A + HP16034E

**(RDC):** HP4284A + HP42841A/WK3260B

**(SRF):** HP4291A

## Physical

**Packaging:** 500 pieces per 7 inch reel.

**Marking:** EIA Inductance Code.