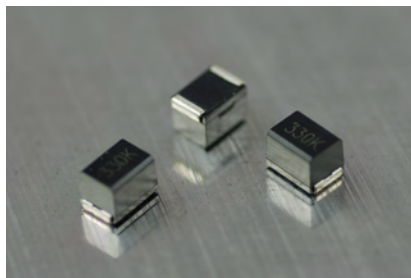
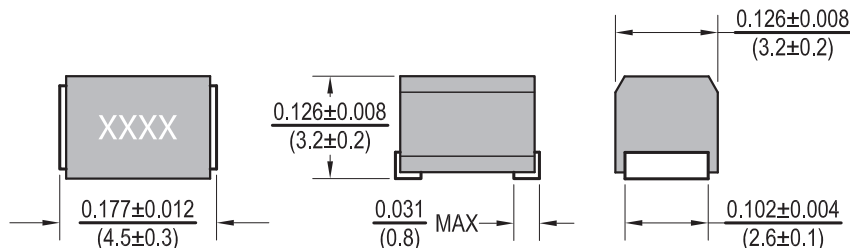




# Molded Chip Inductors MC30A



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.