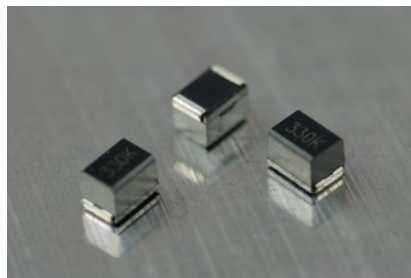
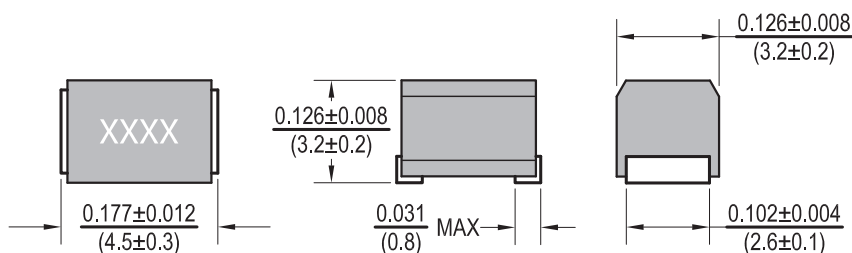


# MCHC30 Molded Chip Inductor High Current



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



## Features

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

## Electrical

**Inductance Range:** 1.0 $\mu$ h ~ 330 $\mu$ h

**Tolerance:** 10% over entire range  
also available in 5%

**Test Frequency:** 1.0 $\mu$ h ~ 82 $\mu$ h measured at 7.96MHz, 10 $\mu$ h ~ 82 $\mu$ h 2.52MHz, 100 $\mu$ H-300 $\mu$ h .796MHz

**Operating Temp:** -40°C ~ +105°C @ 75% RH

**IDC:** The current at which inductance will drop no more than 10% of it's initial value.

**L/Q:** Test OCS @ 0.10mv

## 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):** HP4285A Precision LCR Meter

**(RDC):** Chen Hwa 502

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

**(SRF):** HP4291A Impedance Analyzer

## Physical

**Packaging:** 500 pieces, 7" reel  
Marking: EIA inductance code

Allied Part Number	Inductance ( $\mu$ h)	Tolerance (%)	Q Min.	L,Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	IDC (mA)
MCHC30-1R0K-RC	1.0	10	10	7.96	200	0.11	1050
MCHC30-1R2K-RC	1.2	10	10	7.96	100	0.12	1000
MCHC30-1R5K-RC	1.5	10	10	7.96	130	0.15	950
MCHC30-1R8K-RC	1.8	10	10	7.96	100	0.16	900
MCHC30-2R2K-RC	2.2	10	10	7.96	80	0.18	850
MCHC30-2R7K-RC	2.7	10	10	7.96	60	0.20	800
MCHC30-3R3K-RC	3.3	10	10	7.96	45	0.22	750
MCHC30-3R9K-RC	3.9	10	10	7.96	40	0.24	700
MCHC30-4R7K-RC	4.7	10	10	7.96	35	0.27	650
MCHC30-5R6K-RC	5.6	10	10	7.96	30	0.30	650
MCHC30-6R8K-RC	6.8	10	10	7.96	28	0.35	600
MCHC30-8R2K-RC	8.2	10	10	7.96	25	0.40	600
MCHC30-100K-RC	10	10	10	2.52	22	0.50	550
MCHC30-120K-RC	12	10	10	2.52	21	0.60	500
MCHC30-150K-RC	15	10	10	2.52	20	0.70	450
MCHC30-180K-RC	18	10	10	2.52	19	0.80	400
MCHC30-220K-RC	22	10	10	2.52	18	0.90	370
MCHC30-270K-RC	27	10	10	2.52	16	1.20	330
MCHC30-330K-RC	33	10	10	2.52	14	1.40	300
MCHC30-390K-RC	39	10	10	2.52	12	1.60	280
MCHC30-470K-RC	47	10	10	2.52	11.5	1.90	260
MCHC30-560K-RC	56	10	10	2.52	11	2.20	240
MCHC30-680K-RC	68	10	10	2.52	10	2.60	220
MCHC30-820K-RC	82	10	10	2.52	9.0	3.50	200
MCHC30-101K-RC	100	10	20	7.96	8.0	4.00	180
MCHC30-121K-RC	120	10	20	7.96	7.5	4.50	160
MCHC30-151K-RC	150	10	20	7.96	7.0	6.50	140
MCHC30-181K-RC	180	10	20	7.96	6.5	7.50	120
MCHC30-221K-RC	220	10	20	7.96	5.5	9.00	120
MCHC30-271K-RC	270	10	20	7.96	5.0	11.0	100
MCHC30-331K-RC	330	10	20	7.96	4.0	13.0	90

All specifications subject to change without notice.