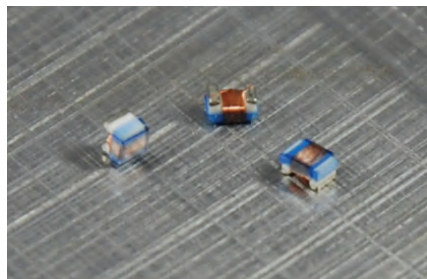
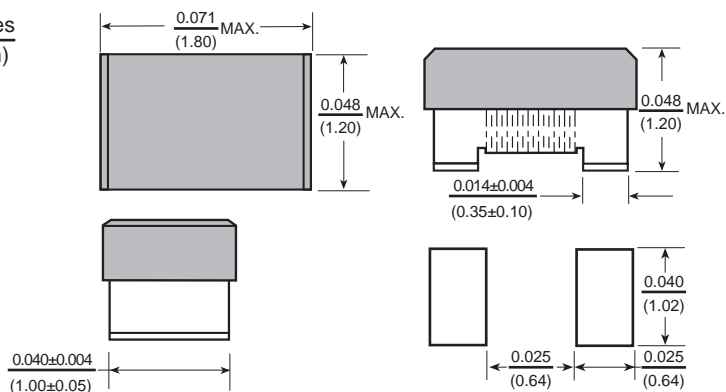




# Ceramic Core Chip Inductors CC03



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



## Features

- 0603 size suitable for pick and place automation
- Low Profile under 1.20mm
- Ceramic core provide high self resonant frequency.
- High Q values at high frequencies
- Ceramic core also provides excellent thermal and batch consistency
- Lead Free and Halogen Free

## Electrical

**Inductance Range:** 2.0nH to 390nH

**Tolerance:** Available as noted. Insert letter for desired tolerance.

**Test Frequency:** At specified frequency with Test OSC @ 0.1V

**Operating Temp:** -40°C ~ 125°C

**Rated Current:** Current at which inductance will change by no more than 20% of initial value without current.

## Resistance to Soldering Heat

**Test Method:** Reflow Solder the device onto PCB

**Peak Temp:** 260°C  $\pm$  5°C for 10 sec.

**Inductance:** Within  $\pm$  10% of initial value.

**RDC:** Within  $\pm$  15% of initial value.

## Test Equipment

**(L/Q):** Agilent 4291, 4287, E4991, 4192, 4285

**(SRF):** Agilent 4291, E4991

**(RDC):** Agilent 4338

**Current:** Agilent 4192, 4338, E4991

## Physical

**Packaging:** 3000 pieces per 7 inch reel.

**Marking:** NONE

Allied Part Number	Inductance (nh)	Tolerance (%) *	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Rated Current (mA)
CC03-2N0_-RC	2.0	C,S	13	250	8000	0.07	700
CC03-3N9_-RC	3.9	C,S	22	250	6900	0.07	700
CC03-4N7_-RC	4.7	C,J,K	20	250	5800	0.12	700
CC03-6N8_-RC	6.8	C,J,K	27	250	5800	0.08	700
CC03-8N2_-RC	8.2	C,J,K	30	250	4200	0.13	700
CC03-10N_-RC	10	J,K	31	250	4800	0.13	700
CC03-12N_-RC	12	J,K	35	250	4000	0.13	700
CC03-15N_-RC	15	J,K	35	250	4000	0.13	700
CC03-18N_-RC	18	J,K	35	250	3100	0.16	700
CC03-22N_-RC	22	J,K	38	250	3000	0.23	700
CC03-24N_-RC	24	J,K	38	250	2800	0.13	700
CC03-27N_-RC	27	J,K	40	250	2800	0.14	600
CC03-33N_-RC	33	J,K	40	250	2300	0.22	600
CC03-39N_-RC	39	J,K	40	250	2200	0.30	600
CC03-47N_-RC	47	J,K	38	200	2000	0.35	600
CC03-56N_-RC	56	J,K	38	200	1900	0.37	600
CC03-68N_-RC	68	J,K	37	200	1700	0.43	600
CC03-72N_-RC	72	J,K	34	150	1700	0.42	400
CC03-82N_-RC	82	J,K	34	150	1700	0.71	400
CC03-100N_-RC	100	J,K	34	150	1400	0.78	400
CC03-120N_-RC	120	J,K	32	150	1300	0.84	300
CC03-150N_-RC	150	J,K	28	150	990	0.96	280
CC03-180N_-RC	180	J,K	25	100	990	1.52	240
CC03-220N_-RC	220	J,K	25	100	900	2.02	200
CC03-270N_-RC	270	J,K	24	100	900	2.36	170
CC03-330N_-RC	330	J,K	24	100	700	3.40	185
CC03-390N_-RC	390	J,K	24	100	700	3.60	100

\*Insert letter for desired tolerance. C= $\pm$ 0.2nh, S=0.3nh, J= $\pm$ 5%, K= $\pm$ 10%  
All specifications subject to change without notice.