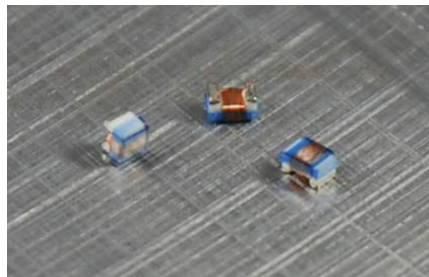
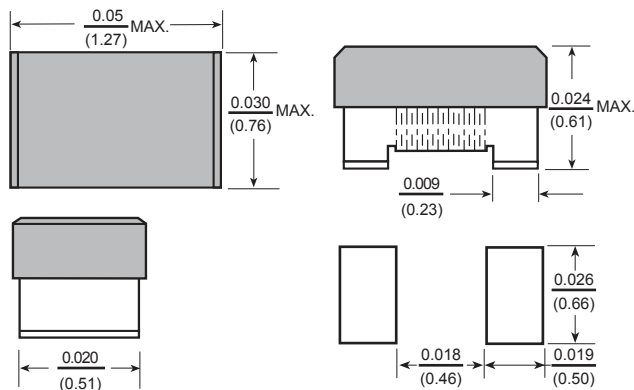




Ceramic Core Chip Inductors CC02



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



Recommended PCB Layout

Allied Part Number	Inductance (nH)	Tolerance (%) *	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Rated Current (mA)
CC02-1N0_-RC	1.0	K	16	250	12700	0.045	1360
CC02-1N9_-RC	1.9	K	16	250	11300	0.070	1040
CC02-2N0_-RC	2.0	K	16	250	11100	0.070	1040
CC02-2N2_-RC	2.2	J,K	19	250	10800	0.070	960
CC02-2N4_-RC	2.4	J,K	15	250	10500	0.068	790
CC02-2N7_-RC	2.7	J,K	16	250	10400	0.120	640
CC02-3N3_-RC	3.3	J,K	19	250	7000	0.066	840
CC02-3N6_-RC	3.6	J,K	19	250	6800	0.066	840
CC02-3N9_-RC	3.9	J,K	19	250	5800	0.066	840
CC02-4N3_-RC	4.3	J,K	18	250	6000	0.091	700
CC02-4N7_-RC	4.7	J,K	18	250	4770	0.130	640
CC02-5N1_-RC	5.1	J,K	20	250	4800	0.083	800
CC02-5N8_-RC	5.8	J,K	20	250	4800	0.083	760
CC02-6N2_-RC	6.2	J,K	20	250	4800	0.083	760
CC02-6N8_-RC	6.8	J,K	20	250	4800	0.083	680
CC02-7N5_-RC	7.5	J,K	22	250	4800	0.104	680
CC02-8N2_-RC	8.2	J,K	22	250	4400	0.104	680
CC02-8N7_-RC	8.7	J,K	18	250	4100	0.200	480
CC02-9N0_-RC	9.0	J,K	22	250	4160	0.104	680
CC02-9N5_-RC	9.5	J,K	18	250	4000	0.200	480
CC02-10N_-RC	10	G,J,K	21	250	3900	0.195	480
CC02-11N_-RC	11	G,J,K	24	250	3680	0.120	640
CC02-12N_-RC	12	G,J,K	24	250	3600	0.120	640
CC02-13N_-RC	13	G,J,K	24	250	3450	0.210	440
CC02-15N_-RC	15	G,J,K	24	250	3280	0.172	560
CC02-16N_-RC	16	G,J,K	24	250	3100	0.220	560
CC02-18N_-RC	18	G,J,K	25	250	3100	0.230	420
CC02-19N_-RC	19	G,J,K	24	250	3040	0.202	480
CC02-20N_-RC	20	G,J,K	25	250	3000	0.250	420
CC02-22N_-RC	22	G,J,K	25	250	2800	0.300	400
CC02-23N_-RC	23	G,J,K	24	250	2720	0.300	400
CC02-24N_-RC	24	G,J,K	25	250	2700	0.300	400
CC02-27N_-RC	27	G,J,K	24	250	2480	0.300	400
CC02-30N_-RC	30	G,J,K	25	250	2350	0.350	400
CC02-33N_-RC	33	G,J,K	24	250	2350	0.350	400
CC02-36N_-RC	36	G,J,K	24	250	2320	0.440	320
CC02-39N_-RC	39	G,J,K	25	250	2100	0.550	200
CC02-40N_-RC	40	G,J,K	24	250	2240	0.050	320
CC02-43N_-RC	43	G,J,K	25	250	2030	0.810	100
CC02-47N_-RC	47	G,J,K	25	250	2100	0.830	150
CC02-51N_-RC	51	G,J,K	25	250	1750	0.820	100
CC02-56N_-RC	56	G,J,K	25	250	1760	0.970	100
CC02-68N_-RC	68	G,J,K	25	250	1620	1.120	100
CC02-82N_-RC	82	G,J,K	22	250	1260	1.550	50
CC02-100N_-RC	100	G,J,K	22	250	1160	2.000	30
CC02-120N_-RC	120	G,J,K	20	250	>1800	2.660	30

Features

- 0402 size suitable for pick and place automation
- Low Profile under .61mm
- Ceramic core provide high self resonant frequency.
- High Q values at high frequencies
- Ceramic core also provides excellent thermal and batch consistency

Electrical

Inductance Range: 1nH to 120nH
Tolerance: Available as noted. Insert letter for desired tolerance
Test Frequency: At specified frequency
Operating Temp: -40°C ~ 125°C
Rated Current: Current at which inductance will be changed by no more than 20% initial value without current.

Resistance to Soldering Heat

Test Method: Reflow Solder the device onto PCB
Peak Temp: 260°C ± 5°C for 10 sec.
Inductance Change: Within 5% of initial value
Q Change: Within 10% of initial value.

Test Equipment

(L/Q): HP4286
(SRF): HP4287
(RDC): GOM 801G
I_{rms}: HP4284A + HP42841A / HP4285A + HP42841A

Physical

Packaging: 4000 pieces per 7 inch reel.
Marking: None

*Insert letter for desired tolerance. G=±2%, J=±5%, K=±10%
 All specifications subject to change without notice.