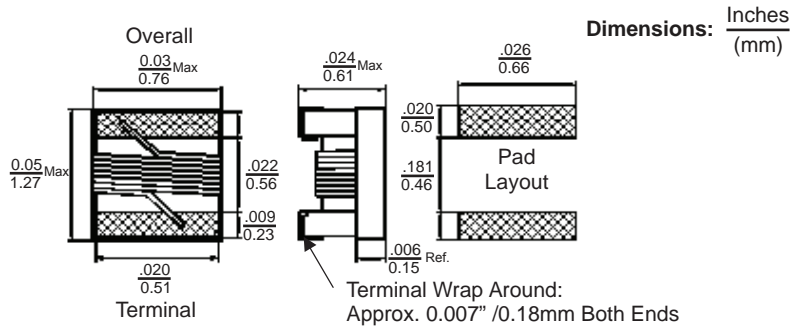


# CHQ02 Ceramic Core High Current Chip Inductor



## Features

- 0402 size suitable for pick and place automation.
- High Q values at high frequencies.
- High Current and low loss excellent for RF applications.
- Ceramic core provides high self resonant frequencies.
- Low DC resistance ideal for mobile applications
- Non-Magnetic core assures excellent thermal stability and batch consistency

## Electrical

**Inductance Range:** 1.0nH to 51nH

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

**Test Frequency:** Inductance @ 250MHz

**Operating Temp:** -40°C ~ 125°C

**IDC:** Based on 15°C temperature rise @ 25°C Ambient.

## Resistance to Soldering Heat

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

**Peak Temp:** 260°C ± 5°C for 10 sec.

Inductance to remain within 5% of initial value  
Q to remain within 10% of initial value

## Test Equipment

**(L/Q):** Agilent E4982A

**(SRF):** Agilent E4982A

**(RDC):** Agilent E4982A

## Physical

**Packaging:** 4000 pieces per 7 inch reel

**Marking:** None

Allied Part Number	Inductance (nH)	Tolerance (%)	Q Factor 900MHz/1.7GHz	SRF Min. (GHz)	DCR Max. (Ω)	IDC (mA) Max.
CHQ02-1N0_-RC	1.0	C,S,J,K	46/75	16.0	.030	2300
CHQ02-2N0_-RC	2.0	C,S,J,K	58/85	15.2	.038	2100
CHQ02-2N2_-RC	2.2	C,S,J,K	60/86	15.1	.038	2100
CHQ02-2N4_-RC	2.4	C,S,J,K	60/83	14.0	.042	2000
CHQ02-2N7_-RC	2.7	C,S,J,K	62/85	13.0	.075	1500
CHQ02-3N3_-RC	3.3	C,S,J,K	66/95	12.8	.045	1700
CHQ02-3N6_-RC	3.6	C,S,J,K	65/94	11.7	.045	1700
CHQ02-3N9_-RC	3.9	C,S,J,K	64/98	9.50	.045	1700
CHQ02-4N3_-RC	4.3	S,J,K	63/90	7.15	.050	1600
CHQ02-4N7_-RC	4.7	S,J,K	58/83	6.85	.070	1500
CHQ02-5N1_-RC	5.1	G,J,K	54/76	6.80	.115	1200
CHQ02-5N6_-RC	5.6	G,J,K	73/105	6.50	.050	1600
CHQ02-6N2_-RC	6.2	G,J,K	73/100	5.80	.055	1600
CHQ02-6N8_-RC	6.8	G,J,K	68/94	5.80	.065	1500
CHQ02-7N5_-RC	7.5	G,J,K	60/82	5.40	.090	1400
CHQ02-8N2_-RC	8.2	G,J,K	68/95	5.40	.065	1500
CHQ02-8N7_-RC	8.7	G,J,K	68/95	5.00	.065	1500
CHQ02-9N0_-RC	9.0	G,J,K	67/92	5.00	.080	1400
CHQ02-9N5_-RC	9.5	G,J,K	64/90	4.70	.090	1400
CHQ02-10N_-RC	10	G,J,K	62/90	4.70	.100	1300
CHQ02-11N_-RC	11	G,J,K	68/98	4.70	.065	1400
CHQ02-12N_-RC	12	G,J,K	66/100	4.40	.100	1200
CHQ02-13N_-RC	13	G,J,K	62/82	4.20	.150	870
CHQ02-15N_-RC	15	G,J,K	62/85	3.90	.110	1100
CHQ02-16N_-RC	16	G,J,K	57/77	3.70	.140	850
CHQ02-18N_-RC	18	G,J,K	58/74	3.55	.120	900
CHQ02-19N_-RC	19	G,J,K	61/88	3.50	.145	850
CHQ02-20N_-RC	20	G,J,K	58/76	3.50	.185	780
CHQ02-21N_-RC	21	G,J,K	48/62	1.70	.460	450
CHQ02-22N_-RC	22	G,J,K	60/74	3.30	.160	800
CHQ02-23N_-RC	23	G,J,K	60/77	3.30	.160	800
CHQ02-24N_-RC	24	G,J,K	55/71	3.15	.200	700
CHQ02-25N_-RC	25	G,J,K	57/73	3.15	.250	600
CHQ02-26N_-RC	26	G,J,K	56/74	3.15	.285	450
CHQ02-27N_-RC	27	G,J,K	62/86	3.20	.320	450
CHQ02-30N_-RC	30	G,J,K	61/87	2.90	.330	450
CHQ02-33N_-RC	33	G,J,K	61/80	2.80	.330	490
CHQ02-36N_-RC	36	G,J,K	59/76	2.80	.380	480
CHQ02-37N_-RC	37	G,J,K	57/72	2.70	.460	480
CHQ02-39N_-RC	39	G,J,K	56/84	2.60	.430	450
CHQ02-40N_-RC	40	G,J,K	56/75	2.60	.430	450
CHQ02-43N_-RC	43	G,J,K	52/68	2.50	.520	450
CHQ02-47N_-RC	47	G,J,K	48/62	2.40	.580	420
CHQ02-51N_-RC	51	G,J,K	52/59	2.30	.700	360

C=+/- .2nh, S=+/- .5nh, G=+/-2%, J=+/-5%, K=+/-10%  
All specifications subject to change without notice.