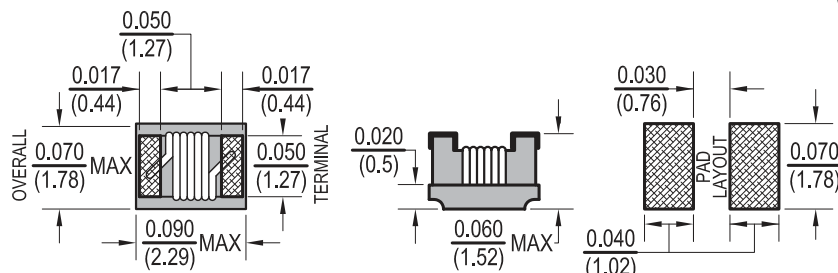


# CHQ05 Ceramic Core High Q Chip Inductors



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



## Features

- 0805 size suitable for pick and place automation
- Exceptional High Q values at high frequencies
- Ceramic core provides high self resonant frequencies
- Low DC resistance ideal for mobile applications
- High Current and low loss excellent for RF applications
- Non-Magnetic core assures excellent thermal stability and batch consistency

## Electrical

**Inductance Range:** 2.5nH to 51nH

**Tolerance:** 2.5nH-12nH available in 10% & 5%, 16nH-51nH available in 10%, 5%, and 2%

**Test Frequency:** At specified Frequency with Test OSC @ 200mV.

**Operating Temp:** -40°C ~ 125°C

**Irms:** 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.

**Solder Composition:** Sn/Ag3.0/Cu0.5

**Total Test Time:** 6 minutes

## Test Equipment

**(L/Q):** HP4286A / HP4287A / Agilent E4491A

**(SRF):** HP8753D / Agilent E4991

**(RDC):** Chen Hwa 502BC

**(Irms):** HP4284A + HP42841A / HP4285A + HP42841A + HP4284A + HP42841A

## Physical

**Packaging:** 2000 pieces per 7 inch reel

**Marking:** Single Dot Color Code System

Allied Part Number	Inductance (nH)	Tolerance (%)	Q Min.	LQ Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA) Max.
CHQ05-2N5_-RC	2.5	10, 5	80	250/1500	6000	0.02	1600
CHQ05-5N6_-RC	5.6	10, 5	98	250/1500	6000	.035	1600
CHQ05-6N2_-RC	6.2	10, 5	88	250/1000	4750	.035	1600
CHQ05-12N_-RC	12	10, 5	80	250/1000	3000	.045	1600
CHQ05-16N_-RC	16	10, 5, 2	72	250/500	2950	0.06	1500
CHQ05-18N_-RC	18	10, 5, 2	75	250/500	2550	0.06	1400
CHQ05-20N_-RC	20	10, 5, 2	70	250/500	2050	.055	1400
CHQ05-27N_-RC	27	10, 5, 2	75	250/500	2000	0.70	1300
CHQ05-30N_-RC	30	10, 5, 2	65	250/500	1950	.095	1200
CHQ05-39N_-RC	39	10, 5, 2	65	250/500	1600	.095	1100
CHQ05-48N_-RC	48	10, 5, 2	65	250/500	1400	0.11	1200
CHQ05-51N_-RC	51	10, 5, 2	65	250/500	1400	0.12	1000

To complete part number insert tolerance designator: K=10%, J=5%, G=2%  
All specifications subject to change without notice.