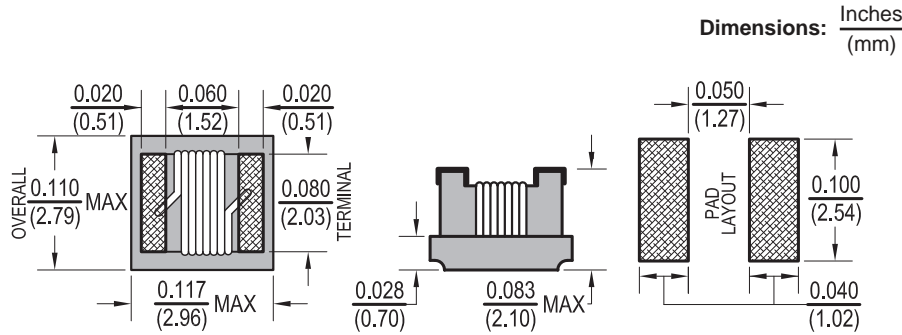


# CHQ10 Ceramic Core High Q Chip Inductors



## Features

- 1008 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:** 4.1nH to 390nH

**Tolerance:** 5% Across entire range  
Available in tighter tolerances

**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

## Physical

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

**Marking:** Three Dot Color Code System

Allied Part Number	Inductance (nH)	Tolerance (%)	Q Min.	L/Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA) Max.
CHQ10-4N1K-RC	4.1	10	75	50/1500	6000	0.05	1600
CHQ10-8N2K-RC	8.2	10	60	50/500	3600	0.06	1600
CHQ10-10NK-RC	10	10	60	50/500	3600	0.06	1600
CHQ10-12NK-RC	12	10	70	50/500	2800	0.06	1500
CHQ10-18NK-RC	18	10	62	50/350	2700	0.07	1400
CHQ10-22NK-RC	22	10	62	50/350	2050	0.07	1400
CHQ10-33NK-RC	33	10	75	50/350	1700	0.09	1300
CHQ10-39NK-RC	39	10	75	50/350	1300	0.09	1300
CHQ10-47NK-RC	47	10	75	50/350	1450	0.12	1200
CHQ10-56NK-RC	56	10	75	50/350	1230	0.12	1200
CHQ10-68NK-RC	68	10	80	50/350	1150	0.13	1100
CHQ10-82NK-RC	82	10	80	50/350	1060	0.16	1100
CHQ10-R10K-RC	100	10	62	50/350	1000	0.16	1000
CHQ10-R12K-RC	120	10	50	25/100	950	0.20	1000
CHQ10-R15K-RC	150	10	48	25/100	820	0.23	1000
CHQ10-R22K-RC	220	10	48	25/100	730	0.45	1000
CHQ10-R27K-RC	270	10	48	25/100	650	0.50	900
CHQ10-R33K-RC	330	10	48	25/100	570	0.65	900
CHQ10-R39K-RC	390	10	48	25/100	530	0.70	800

Available in tighter tolerances.

All specifications subject to change without notice.