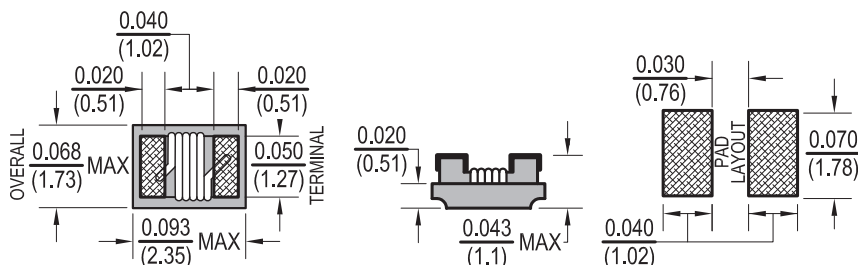


# CT05 Ceramic Core Low Profile Chip Inductors



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



## Features

- 0805 size suitable for pick and place automation
- Low Profile at 1.1mm
- Ceramic core provide high self resonant frequency
- High Q values at high frequencies
- Ceramic core also provides excellent thermal stability and batch consistency

## Electrical

**Inductance Range:** 1.8nH to 1000nH

**Tolerance:** 5% Across entire range, except 1.8nH & 3.9nH they are available in 10%  
Most values 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

**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.
CT05-1N8K-RC	1.8	10	55	250/1500	9400	0.03	800
CT05-3N9K-RC	3.9	10	50	250/1000	6100	0.06	800
CT05-4N7K-RC	4.7	10	50	250/1000	5500	0.06	800
CT05-6N8K-RC	6.8	10	50	250/1000	5500	0.08	800
CT05-8N2K-RC	8.2	10	50	250/1000	4800	0.08	800
CT05-10NK-RC	10	10	55	250/750	3300	0.08	800
CT05-12NK-RC	12	10	55	250/750	3800	0.10	800
CT05-15NK-RC	15	10	50	250/500	2950	0.10	800
CT05-18NK-RC	18	10	50	250/500	3100	0.13	800
CT05-22NK-RC	22	10	50	250/500	2900	0.15	650
CT05-27NK-RC	27	10	50	250/500	2450	0.23	650
CT05-33NK-RC	33	10	55	250/500	2350	0.28	650
CT05-39NK-RC	39	10	55	250/500	2200	0.33	600
CT05-47NK-RC	47	10	50	200/500	2000	0.39	530
CT05-56NK-RC	56	10	50	200/500	1850	0.39	500
CT05-68NK-RC	68	10	50	200/500	1500	0.40	470
CT05-82NK-RC	82	10	50	150/500	1500	0.44	450
CT05-R10K-RC	100	10	50	150/500	1200	0.64	400
CT05-R12K-RC	120	10	40	150/250	1150	0.68	300
CT05-R15K-RC	150	10	40	150/250	1050	0.80	300
CT05-R18K-RC	180	10	40	150/250	950	0.90	300
CT05-R22K-RC	220	10	40	150/250	900	0.98	270
CT05-R27K-RC	270	10	40	150/250	850	1.30	240
CT05-R33K-RC	330	10	40	100/250	800	1.45	300
CT05-R39K-RC	390	10	35	100/250	700	1.60	300
CT05-R47K-RC	470	10	25	50/100	600	1.80	300
CT05-R56K-RC	560	10	18	25/50	550	1.90	300
CT05-R62K-RC	620	10	18	25/50	450	2.00	300
CT05-R68K-RC	680	10	18	25/50	420	2.10	300
CT05-R75K-RC	750	10	18	25/50	400	2.20	300
CT05-R82K-RC	820	10	18	25/50	400	2.50	300
CT05-1R0K-RC	1000	10	17	25/50	300	3.10	300

Available in tighter tolerances.

All specifications subject to change without notice.