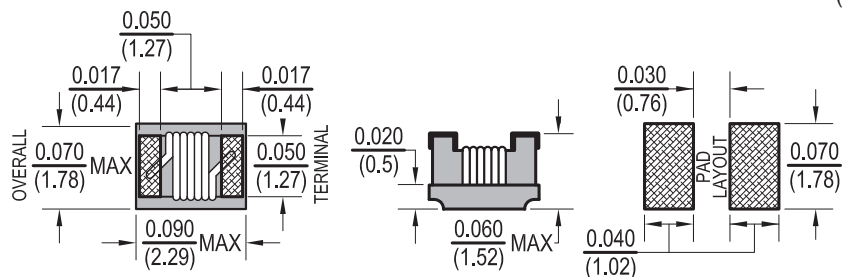


CHQ05 Ceramic Core High Q Chip Inductors



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. | L/Q 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.