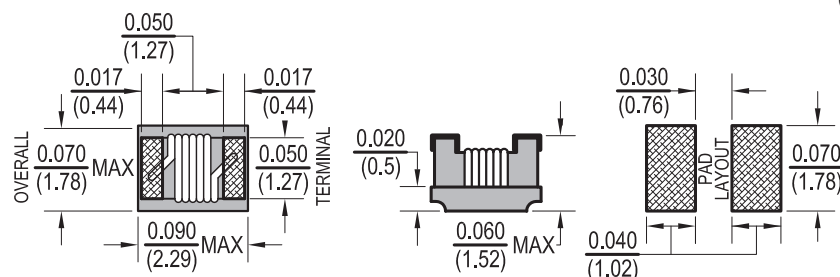


CHQ05 Ceramic Core High Q Chip Inductors



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 47nH

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 + 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.
CHQ05-2N5K-RC	2.5	10	80	250/1500	6000	0.02	1600
CHQ05-5N6K-RC	5.6	10	98	250/1500	6000	.035	1600
CHQ05-6N2K-RC	6.2	10	88	250/1000	4750	.035	1600
CHQ05-12NK-RC	12	10	80	250/1000	3000	.045	1600
CHQ05-16NK-RC	16	10	72	250/500	2950	0.06	1500
CHQ05-18NK-RC	18	10	75	250/500	2550	0.06	1400
CHQ05-20NK-RC	20	10	70	250/500	2050	.055	1400
CHQ05-27NK-RC	27	10	75	250/500	2000	0.70	1300
CHQ05-30NK-RC	30	10	65	250/500	1950	.095	1200
CHQ05-39NK-RC	39	10	65	250/500	1600	.095	1100
CHQ05-48NK-RC	48	10	65	250/500	1400	0.11	1200
CHQ05-51NK-RC	51	10	65	250/500	1400	0.12	1000

Available in tighter tolerances.

All specifications subject to change without notice.