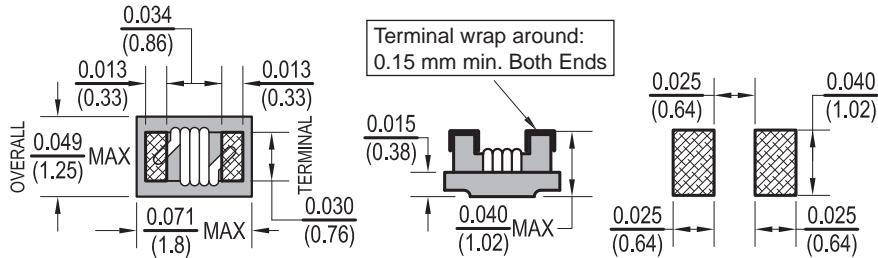


CHC03 Ceramic Core High Current Chip Inductor



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



Features

- 0603 size suitable for pick and place automation.
- Ceramic core provide high self resonant frequency.
- High Q values at high frequencies
- Low DC resistance
- High Current and low loss excellent for RF applications.

Electrical

Inductance Range: 1.6nH to 24nH

Tolerance: 5% over entire range
Available in 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 E4991A

(DCR): Chen Hwa 502NC

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

Physical

Packaging: 4000 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.
CHC03-1N6K-RC	1.6	10	24	250/250	12500	.030	2400
CHC03-3N6K-RC	3.6	10	24	250/250	5900	.048	2300
CHC03-3N9K-RC	3.9	10	25	250/250	5900	.054	2200
CHC03-6N8K-RC	6.8	10	35	250/250	5800	.054	2100
CHC03-7N5K-RC	7.5	10	35	250/250	3700	.059	2100
CHC03-8N2K-RC	8.2	10	38	250/250	3700	.071	2000
CHC03-10NK-RC	10	10	38	250/250	3700	.071	2000
CHC03-12NK-RC	12	10	38	250/250	3000	.075	2000
CHC03-15NK-RC	15	10	38	250/250	2800	.080	1900
CHC03-18NK-RC	18	10	40	250/250	2800	.099	1900
CHC03-22NK-RC	22	10	42	250/250	2400	.099	1800
CHC03-24NK-RC	24	10	42	250/250	2400	.105	1800

Available in tighter tolerances.

All specifications subject to change without notice.