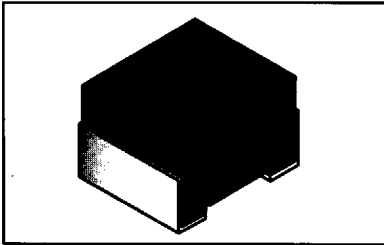


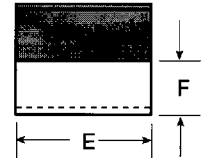
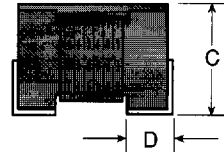
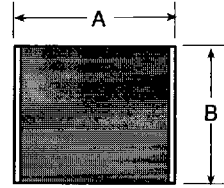
# Ceramic Core Chip Inductor **CC10**



### Dimensions (In.)

#### CC10

- A .098 ± .008
- B .079 ± .004
- C .070 ± .008
- D .018 ± .004
- E .079 ± .004
- F .018 ± .004



Allied Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Rated Current (mA)
CC10-10NM	10	20	50	500	4100	0.08	1000
CC10-12NM	12	20	50	500	3300	0.09	1000
CC10-15NM	15	20	50	500	3000	0.10	1000
CC10-18NM	18	20	50	350	2500	0.11	1000
CC10-22NM	22	20	55	350	2400	0.12	1000
CC10-27NM	27	20	55	350	1600	0.13	1000
CC10-33NM	33	20	60	350	1600	0.14	1000
CC10-39NM	39	20	60	350	1500	0.15	1000
CC10-47NM	47	20	65	350	1500	0.16	1000
CC10-56NK	56	10	65	350	1300	0.18	1000
CC10-68NK	68	10	65	350	1300	0.20	1000
CC10-82NK	82	10	60	350	1000	0.22	1000
CC10-100NK	100	10	60	350	1000	0.56	800
CC10-120NK	120	10	60	350	950	0.63	800
CC10-150NK	150	10	45	100	850	0.70	800
CC10-180NK	180	10	45	100	750	0.77	750
CC10-220NK	220	10	45	100	700	0.84	720
CC10-270NK	270	10	45	100	600	0.91	690
CC10-330NK	330	10	45	100	570	1.05	660
CC10-390NK	390	10	45	100	500	1.12	630
CC10-470NK	470	10	45	100	450	1.19	600
CC10-560NK	560	10	45	100	415	1.33	580
CC10-620NK	620	10	45	100	375	1.40	560
CC10-680NK	680	10	45	100	375	1.47	540
CC10-750NK	750	10	45	100	360	1.54	520
CC10-820NK	820	10	45	100	350	1.61	500
CC10-910NK	910	10	35	50	320	1.68	480
CC10-1000NK	1000	10	35	50	290	1.75	460

### Electrical

**Dielectric Withstanding Voltage:** 5 seconds at DC 500 V applied between both terminals and film.

**Insulation Resistance:** 1000MΩ and over. 1 Minute at DC 100 V measured between both terminals and film.

**Flammability:** IEC 695-2-2. Withstands needle-flame test.

### Mechanical

**Terminal Pull Strength:** Terminals shall withstand a pull of 10N in a horizontal direction.

**Terminal Bending Strength:** Specimen shall be soldered of bend test board and force applied to the opposite side to cause a 10 mm deflection.

**Vibration:** ΔL/L within ±5%. ΔQ/Q within ±10%. 2 hours in each direction of X,Y, Z on PCB at a frequency range of 10-55 10MHz with 1.5 mm amplitude.

**Dropping:** ΔL/L within ±5%. ΔQ/Q within ±10%. Dropping 1 m on the ground of concrete 1 time.

**Resistance to Soldering Heat:** ΔL/L within ±5%. ΔQ/Q within ±10%. Immerse the solder at 260 ± 5°C for 10 ± 1 seconds.

**Solderability:** 95% of the terminal should be covered with new solder. Immerse in the solder at 230 ± 5°C for 10 ± 1 seconds.

**Resistance to Solvent:** Accordance with MIL-STD-202F Method 215.

### Environmental Characteristics

ΔL/L within ±5%. ΔQ/Q within ±10%.

**Low Temperature Storage:** Store at -40 ± 2°C, for 1000 hours.

**High Temperature Storage:** Store at +125 ± 2°C, for 1000 hours.

**Moisture Endurance:** Store at 45 ± 2°C, 90~95% RH for 1000 hours.

**Load Life:** Biased to full rated current at ±125°C for 1000 hours.

**High Temperature/High Humidity:** Biased to 10% rated current at ±85°C, 85% RH for 1000 hours.

**Thermal Shock:** 100 cycles between -40°C/hour and +125°C/hour.

**Temperature Characteristics:** ΔL/L to be measured at the temperature of between -40°C and +125°C as based on the inductance at 20°C.

### Physical

**Packaging:** 2000 pieces per reel.

**Marking:** Inductance value.