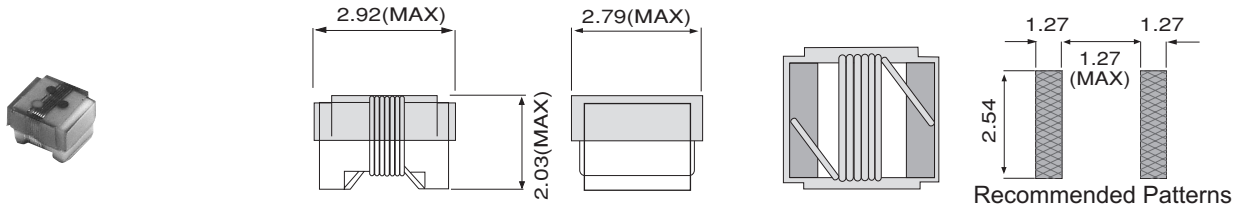


SMD WIRE WOUND CERAMIC CHIP INDUCTORS

1008C SERIES

Mechanical Dimensions (Unit: mm)



Electrical Specification

| Part Number | Ind (nH) | Test Freq. (MHz) | Inductance Tolerance | Q (min) | Test Freq. (MHz) | SRF(MHz) _{min} | DCR (Ω) _{max} | Rated Current (mA) |
|-------------|----------|------------------|----------------------|---------|------------------|-------------------------|---------------------------------|--------------------|
| 1008C-10N | 10 | 50 | M,K | 50 | 500 | 4100 | 0.08 | 1000 |
| 1008C-12N | 12 | 50 | M,K | 50 | 500 | 3300 | 0.09 | 1000 |
| 1008C-15N | 15 | 50 | M,K | 50 | 500 | 2500 | 0.10 | 1000 |
| 1008C-18N | 18 | 50 | M,K,J,G | 50 | 350 | 2500 | 0.11 | 1000 |
| 1008C-22N | 22 | 50 | M,K,J,G | 55 | 350 | 2400 | 0.12 | 1000 |
| 1008C-24N | 24 | 50 | M,K,J,G | 50 | 350 | 1500 | 0.13 | 1000 |
| 1008C-27N | 27 | 50 | M,K,J,G | 55 | 350 | 1600 | 0.13 | 1000 |
| 1008C-33N | 33 | 50 | M,K,J,G | 60 | 350 | 1600 | 0.14 | 1000 |
| 1008C-39N | 39 | 50 | M,K,J,G | 60 | 350 | 1500 | 0.15 | 1000 |
| 1008C-47N | 47 | 50 | M,K,J,G | 65 | 350 | 1500 | 0.16 | 1000 |
| 1008C-56N | 56 | 50 | K,J,G | 65 | 350 | 1300 | 0.18 | 1000 |
| 1008C-68N | 68 | 50 | K,J,G | 65 | 350 | 1300 | 0.20 | 1000 |
| 1008C-82N | 82 | 50 | K,J,G | 60 | 350 | 1000 | 0.22 | 1000 |
| 1008C-R10 | 100 | 25 | K,J,G | 60 | 350 | 1000 | 0.56 | 650 |
| 1008C-R12 | 120 | 25 | K,J,G | 60 | 350 | 950 | 0.63 | 650 |
| 1008C-R15 | 150 | 25 | K,J,G | 45 | 100 | 850 | 0.70 | 580 |
| 1008C-R18 | 180 | 25 | K,J,G | 45 | 100 | 750 | 0.77 | 620 |
| 1008C-R20 | 200 | 25 | K,J,G | 50 | 100 | 750 | 0.81 | 500 |
| 1008C-R22 | 220 | 25 | K,J,G | 45 | 100 | 700 | 0.84 | 500 |
| 1008C-R24 | 240 | 25 | K,J,G | 50 | 100 | 600 | 0.84 | 500 |
| 1008C-R27 | 270 | 25 | K,J,G | 45 | 100 | 600 | 0.91 | 500 |
| 1008C-R30 | 300 | 150 | K,J,G | 40 | 100 | 500 | 1.05 | 660 |
| 1008C-R33 | 330 | 25 | K,J,G | 45 | 100 | 570 | 1.05 | 450 |
| 1008C-R36 | 360 | 150 | K,J,G | 40 | 100 | 500 | 1.05 | 660 |
| 1008C-R39 | 390 | 25 | K,J,G | 45 | 100 | 500 | 1.12 | 470 |
| 1008C-R43 | 430 | 150 | K,J,G | 40 | 100 | 425 | 1.19 | 600 |
| 1008C-R47 | 470 | 25 | K,J,G | 45 | 100 | 450 | 1.19 | 470 |
| 1008C-R56 | 560 | 25 | K,J,G | 45 | 100 | 415 | 1.33 | 400 |
| 1008C-R62 | 620 | 25 | K,J,G | 45 | 100 | 375 | 1.40 | 300 |
| 1008C-R68 | 680 | 25 | K,J,G | 45 | 100 | 375 | 1.47 | 400 |
| 1008C-R75 | 750 | 25 | K,J,G | 45 | 100 | 360 | 1.54 | 360 |
| 1008C-R82 | 820 | 25 | K,J,G | 45 | 100 | 350 | 1.61 | 400 |
| 1008C-R91 | 910 | 25 | K,J,G | 68 | 50 | 320 | 1.68 | 380 |
| 1008C-1R0 | 1000 | 25 | K,J,G | 68 | 50 | 290 | 1.75 | 370 |
| 1008C-1R2 | 1200 | 7.9 | K,J,G | 68 | 50 | 250 | 2.0 | 310 |
| 1008C-1R5 | 1500 | 7.9 | K,J,G | 28 | 50 | 200 | 2.3 | 330 |
| 1008C-1R8 | 1800 | 7.9 | K,J,G | 28 | 50 | 160 | 2.6 | 300 |
| 1008C-2R0 | 2000 | 25 | K,J,G | 25 | 50 | 160 | 2.8 | 280 |
| 1008C-2R2 | 2200 | 7.9 | K,J,G | 28 | 50 | 160 | 2.8 | 280 |
| 1008C-2R7 | 2700 | 7.9 | K,J,G | 22 | 25 | 140 | 3.2 | 290 |
| 1008C-3R3 | 3300 | 7.9 | K,J,G | 22 | 25 | 110 | 3.4 | 290 |
| 1008C-3R9 | 3900 | 7.9 | K,J,G | 20 | 25 | 100 | 3.6 | 260 |
| 1008C-4R7 | 4700 | 7.9 | K,J,G | 20 | 25 | 90 | 4.0 | 260 |

- a Tolerance: M:± 20%, K:± 10%, J:± 5%, G:± 2%.
- b Operating Temp. : -40° C TO +125° C.
- c For 15° C Temperature Rise.
- d Inductance & Q measured using the HP4291B.
- e SRF measured using the HP8753E, or HP8720D.
- f DCR measured using the 502BC milli-ohm meter.

Characteristic Curve

