

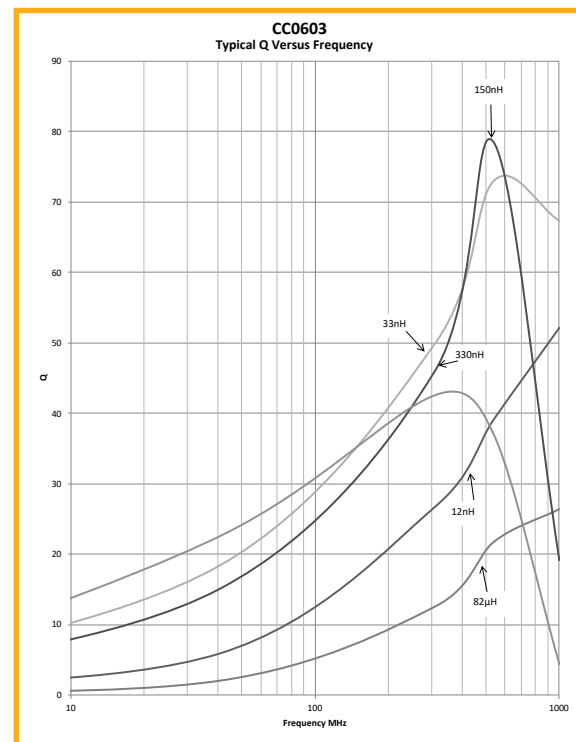
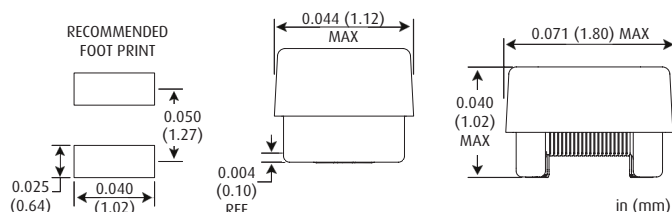
# CC0603 SERIES

## Ceramic Surface Mount Chip Inductor

Outgassing Tested per ASTM E595 (\*)



| PART NUMBER  | L nH | TEST FREQ MHZ | Q MIN | Q TEST FREQ MHZ | SRF MHZ MIN | DCR Ω NOM | CURRENT RATING mA DC |
|--------------|------|---------------|-------|-----------------|-------------|-----------|----------------------|
| CERAMIC CORE |      |               |       |                 |             |           |                      |
| CC0603-0018K | 1.8  | 250           | 22    | 250             | 6000        | 0.070     | 1000                 |
| CC0603-0036J | 3.6  | 250           | 22    | 250             | 6000        | 0.070     | 1000                 |
| CC0603-0039J | 3.9  | 250           | 22    | 250             | 6000        | 0.070     | 1000                 |
| CC0603-0047J | 4.7  | 250           | 22    | 250             | 6000        | 0.090     | 887                  |
| CC0603-0068J | 6.8  | 250           | 30    | 250             | 5800        | 0.100     | 841                  |
| CC0603-010J  | 10   | 250           | 31    | 250             | 4800        | 0.160     | 665                  |
| CC0603-012G  | 12   | 250           | 35    | 250             | 4000        | 0.130     | 738                  |
| CC0603-015G  | 15   | 250           | 35    | 250             | 4000        | 0.170     | 645                  |
| CC0603-018G  | 18   | 250           | 35    | 250             | 3100        | 0.170     | 645                  |
| CC0603-022G  | 22   | 250           | 38    | 250             | 3000        | 0.190     | 610                  |
| CC0603-027G  | 27   | 250           | 40    | 250             | 2800        | 0.220     | 567                  |
| CC0603-033G  | 33   | 250           | 40    | 250             | 2300        | 0.220     | 567                  |
| CC0603-039G  | 39   | 250           | 40    | 250             | 2200        | 0.240     | 543                  |
| CC0603-047G  | 47   | 200           | 38    | 200             | 2000        | 0.280     | 503                  |
| CC0603-056G  | 56   | 200           | 38    | 200             | 1900        | 0.310     | 478                  |
| CC0603-068G  | 68   | 200           | 37    | 200             | 1700        | 0.360     | 443                  |
| CC0603-082G  | 82   | 150           | 34    | 150             | 1700        | 0.540     | 362                  |
| CC0603-100G  | 100  | 150           | 34    | 150             | 1400        | 0.747     | 308                  |
| CC0603-120G  | 120  | 150           | 32    | 150             | 1300        | 0.788     | 300                  |
| CC0603-150G  | 150  | 150           | 28    | 150             | 990         | 1.14      | 249                  |
| CC0603-180G  | 180  | 150           | 25    | 150             | 990         | 1.28      | 235                  |
| CC0603-220G  | 220  | 100           | 25    | 150             | 700         | 1.70      | 204                  |
| CC0603-270G  | 270  | 25            | 16    | 25              | 600         | 1.78      | 199                  |
| CC0603-330G  | 330  | 25            | 14    | 25              | 300         | 2.20      | 179                  |



## NOTES

- Operating Temperature Range: -40°C to +125°C
- Current Rating is based on a 35°C temperature rise at an ambient temperature of 90°C
- Weight MAX: < 0.05 grams
- Suitable for reflow soldering
- Flat top cover for pick and place
- Excellent for high frequency applications
- Meets a TML (Total Mass Loss) requirement of 1.0% maximum when testing in accordance with ASTM E595; this calculation does not include WVR (Water Vapor Recovered)
- Materials are fungus-inert to meet method 508 of MIL-STD-810H
- Custom designs are available to meet your specific requirements; please contact factory

## PART NUMBER DERIVATION

GEC Series **CC0603 - 0018 K**

Inductance: 4 signif. digits or  
ex: 010 = 10nH, 100 = 100nH

Tolerance: M = 20%, K = 10%, J = 5%, G = 2%  
(Table shows lowest standard tolerance option)  
\*Optional tolerances are available; contact factory

Termination: Gold Plated Nickel (standard and RoHS compliant)

## TAPE AND REEL SPECS

|                      |       |
|----------------------|-------|
| Pieces/reel maximum: | 3000  |
| Pitch between parts: | 4 mm  |
| Tape width:          | 8 mm  |
| Reel diameter:       | 7 in. |