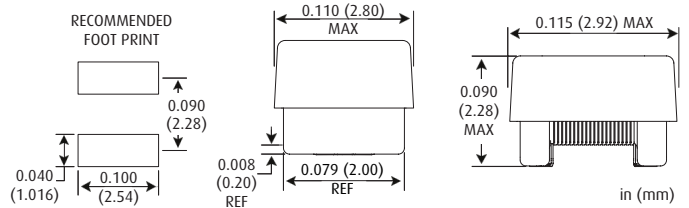


**CC1008 SERIES** 

**Ceramic Surface Mount Chip Inductor**

Outgassing Tested per ASTM E595 (\*)

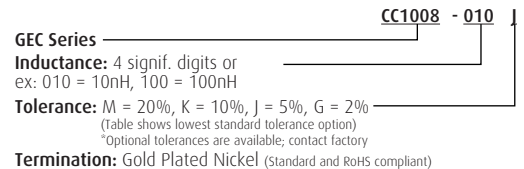


| PART NUMBER         | L nH | TEST FREQ MHZ | Q MIN | Q TEST FREQ MHZ | SRF MHZ MIN | DCR Ω NOM | CURRENT RATING mA DC |
|---------------------|------|---------------|-------|-----------------|-------------|-----------|----------------------|
| <b>CERAMIC CORE</b> |      |               |       |                 |             |           |                      |
| CC1008-010J         | 10   | 50            | 50    | 500             | 4100        | 0.080     | 1000                 |
| CC1008-012J         | 12   | 50            | 50    | 500             | 3300        | 0.090     | 1000                 |
| CC1008-015J         | 15   | 50            | 50    | 500             | 2500        | 0.100     | 1000                 |
| CC1008-018G         | 18   | 50            | 50    | 500             | 2500        | 0.110     | 1000                 |
| CC1008-022G         | 22   | 50            | 55    | 350             | 2400        | 0.120     | 1000                 |
| CC1008-027G         | 27   | 50            | 55    | 350             | 1600        | 0.130     | 1000                 |
| CC1008-033G         | 33   | 50            | 60    | 350             | 1600        | 0.140     | 1000                 |
| CC1008-039G         | 39   | 50            | 60    | 350             | 1300        | 0.150     | 1000                 |
| CC1008-047G         | 47   | 50            | 65    | 350             | 1500        | 0.160     | 1000                 |
| CC1008-056G         | 56   | 50            | 65    | 350             | 1300        | 0.180     | 1000                 |
| CC1008-068G         | 68   | 50            | 65    | 350             | 1300        | 0.200     | 1000                 |
| CC1008-082G         | 82   | 50            | 60    | 350             | 1000        | 0.220     | 1000                 |
| CC1008-100G         | 100  | 25            | 60    | 350             | 1000        | 0.560     | 655                  |
| CC1008-120G         | 120  | 25            | 60    | 350             | 950         | 0.630     | 617                  |
| CC1008-150G         | 150  | 25            | 45    | 100             | 850         | 0.700     | 585                  |
| CC1008-180G         | 180  | 25            | 45    | 100             | 750         | 0.770     | 560                  |
| CC1008-220G         | 220  | 25            | 45    | 100             | 700         | 0.840     | 535                  |
| CC1008-270G         | 270  | 25            | 45    | 100             | 600         | 0.910     | 515                  |
| CC1008-330G         | 330  | 25            | 45    | 100             | 570         | 1.05      | 475                  |
| CC1008-390G         | 390  | 25            | 45    | 100             | 500         | 1.12      | 460                  |
| CC1008-470G         | 470  | 25            | 45    | 100             | 450         | 1.19      | 450                  |
| CC1008-560G         | 560  | 25            | 45    | 100             | 415         | 1.33      | 425                  |
| CC1008-680G         | 680  | 25            | 45    | 100             | 375         | 1.47      | 405                  |
| CC1008-820G         | 820  | 25            | 45    | 100             | 350         | 1.61      | 385                  |
| CC1008-101G         | 1000 | 25            | 35    | 50              | 290         | 1.75      | 370                  |
| CC1008-121G         | 1200 | 7.9           | 35    | 50              | 250         | 2.00      | 345                  |
| CC1008-151G         | 1500 | 7.9           | 28    | 50              | 200         | 2.30      | 325                  |
| CC1008-181G         | 1800 | 7.9           | 28    | 50              | 160         | 2.60      | 305                  |
| CC1008-221G         | 2200 | 7.9           | 28    | 50              | 160         | 2.80      | 295                  |
| CC1008-271G         | 2700 | 7.9           | 22    | 25              | 90          | 3.80      | 250                  |
| CC1008-331G         | 3300 | 7.9           | 22    | 25              | 90          | 4.20      | 240                  |
| CC1008-391G         | 3900 | 7.9           | 20    | 25              | 90          | 4.40      | 235                  |
| CC1008-471G         | 4700 | 7.9           | 20    | 25              | 90          | 4.90      | 220                  |

**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:** 0.050 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)
- Custom designs are available to meet your specific requirements; please contact factory

**PART NUMBER DERIVATION**



**TAPE AND REEL SPECS**

|                      |       |
|----------------------|-------|
| Pieces/reel maximum: | 2200  |
| Pitch between parts: | 4 mm  |
| Tape width:          | 8 mm  |
| Reel diameter:       | 7 in. |