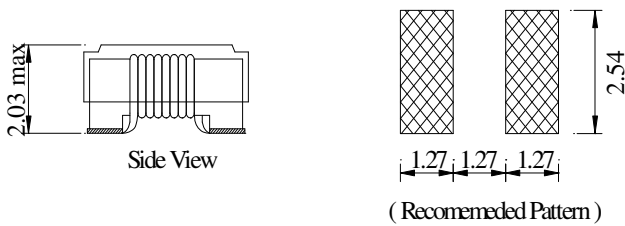
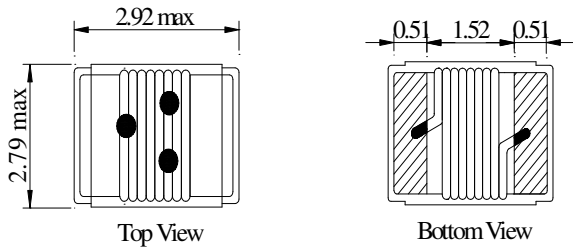


| | | | |
|------------------------------|--------------------------------------|--------|---------------|
| Product Specification | | DOC.NO | 1008CG-series |
| Product Description | SMD Wire Wound Ceramic Chip Inductor | Page | 1 |
| | | Rev. | B0 |

Configuration & Dimension:



Feature:

- 1、Small and lightweight surface mounting type.
- 2、Coil body made of ceramic material in chip from High Q at high frequency.
High self-resonance frequency.
Inductance Range:10~4700nH.
- 3、Applicable to 100MHz~2GMHz.

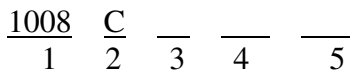
Application:

- 1、Bluetooth module.
- 2、Mobile communication units.
- 3、Portable telephone.
- 4、Wireless devices.

Construction & Material:

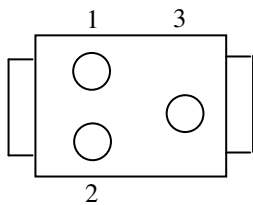
- 1、Core : Ceramic core
- 2、Wire : F Class Enameled copper wire
- 3、Terminal : Ag -Pd or W / Ni / Sn
- 4、Encapsulate : UV epoxy ; Color : Transparent
- 5、Products comply with RoHS' requirements

Product Identification:



- 1、Dimension
- 2、Type: C : Standard products ., D~Z : Special products
- 3、Terminal : G : Mo / Mn or W with Gold plated.
S : Pd /Ag with Tin plated.
- 4、Inductance:
- 5、Tolerance: (G2% , J5% , K10% , M20%)

Color Code Reading Sequence:



- Black=0 Green=5
- Brown=1 Blue=6
- Red=2 Violet=7
- Orange=3 Gray=8
- Yellow=4 White=9

Ex:10N(10nH) Color Code:
1:Brown 2:Black 3:Black

| Specification / Electrical | | | | | DOC.NO | 1008CG-type | | | |
|----------------------------|--------------------------------------|-----------|---------------|----------------------|--------------|---------------|------------|---------|---------|
| Product Description | SMD Wire Wound Ceramic Chip Inductor | | | | Page | 2 | | | |
| | | | | | Rev. | B0 | | | |
| PART NUMBER | INDUCTANCE (n H) | Q MIN | SRF (MHz) MIN | RDC (Ω) MAX | IDC (mA) MAX | TOLERANCE | COLOR CODE | | |
| | | | | | | | Point 1 | Point 2 | Point 3 |
| 1008C 10N | 10@50MHz | 50@500MHz | 4100 | 0.08 | 1000 | M · K | Brown | Black | Black |
| 1008C 12N | 12@50MHz | 50@500MHz | 3300 | 0.09 | 1000 | M · K | Brown | Red | Black |
| 1008C 15N | 15@50MHz | 50@500MHz | 2500 | 0.10 | 1000 | M · K | Brown | Green | Black |
| 1008C 18N | 18@50MHz | 50@350MHz | 2500 | 0.11 | 1000 | M · K · J · G | Brown | Gray | Black |
| 1008C 22N | 22@50MHz | 55@350MHz | 2400 | 0.12 | 1000 | M · K · J · G | Red | Red | Black |
| 1008C 24N | 24@50MHz | 50@350MHz | 1500 | 0.13 | 1000 | M · K · J · G | Red | Yellow | Black |
| 1008C 27N | 27@50MHz | 55@350MHz | 1600 | 0.13 | 1000 | M · K · J · G | Red | Violet | Black |
| 1008C 33N | 33@50MHz | 60@350MHz | 1600 | 0.14 | 1000 | M · K · J · G | Orange | Orange | Black |
| 1008C 39N | 39@50MHz | 60@350MHz | 1500 | 0.15 | 1000 | M · K · J · G | Orange | White | Black |
| 1008C 47N | 47@50MHz | 65@350MHz | 1500 | 0.16 | 1000 | M · K · J · G | Yellow | Violet | Black |
| 1008C 56N | 56@50MHz | 65@350MHz | 1300 | 0.18 | 1000 | K · J · G | Green | Blue | Black |
| 1008C 68N | 68@50MHz | 65@350MHz | 1300 | 0.20 | 1000 | K · J · G | Blue | Gray | Black |
| 1008C 82N | 82@50MHz | 60@350MHz | 1000 | 0.22 | 1000 | K · J · G | Gray | Red | Black |
| 1008C R10 | 100@25MHz | 60@350MHz | 1000 | 0.56 | 650 | K · J · G | Brown | Black | Brown |
| 1008C R12 | 120@25MHz | 60@350MHz | 950 | 0.63 | 650 | K · J · G | Brown | Red | Brown |
| 1008C R15 | 150@25MHz | 45@100MHz | 850 | 0.70 | 580 | K · J · G | Brown | Green | Brown |
| 1008C R18 | 180@25MHz | 45@100MHz | 750 | 0.77 | 620 | K · J · G | Brown | Gray | Brown |
| 1008C R20 | 200@25MHz | 50@100MHz | 750 | 0.81 | 500 | K · J · G | Red | Black | Brown |
| 1008C R22 | 220@25MHz | 45@100MHz | 700 | 0.84 | 500 | K · J · G | Red | Red | Brown |
| 1008C R24 | 240@25MHz | 50@100MHz | 600 | 0.84 | 500 | K · J · G | Red | Yellow | Brown |
| 1008C R27 | 270@25MHz | 45@100MHz | 600 | 0.91 | 500 | K · J · G | Red | Violet | Brown |
| 1008C R30 | 300@150MHz | 40@100MHz | 500 | 1.05 | 660 | K · J · G | Orange | Black | Brown |
| 1008C R33 | 330@25MHz | 45@100MHz | 570 | 1.05 | 450 | K · J · G | Orange | Orange | Brown |
| 1008C R36 | 360@150MHz | 40@100MHz | 500 | 1.05 | 660 | K · J · G | Orange | Blue | Brown |
| 1008C R39 | 390@25MHz | 45@100MHz | 500 | 1.12 | 470 | K · J · G | Orange | White | Brown |
| 1008C R43 | 430@150MHz | 40@100MHz | 425 | 1.19 | 600 | K · J · G | Yellow | Orange | Brown |
| 1008C R47 | 470@25MHz | 45@100MHz | 450 | 1.19 | 470 | K · J · G | Yellow | Violet | Brown |
| 1008C R56 | 560@25MHz | 45@100MHz | 415 | 1.33 | 400 | K · J · G | Green | Blue | Brown |
| 1008C R62 | 620@25MHz | 45@100MHz | 375 | 1.40 | 300 | K · J · G | Blue | Red | Brown |
| 1008C R68 | 680@25MHz | 45@100MHz | 375 | 1.47 | 400 | K · J · G | Blue | Gray | Brown |
| 1008C R75 | 750@25MHz | 45@100MHz | 360 | 1.54 | 360 | K · J · G | Violet | Green | Brown |
| 1008C R82 | 820@25MHz | 45@100MHz | 350 | 1.61 | 400 | K · J · G | Gray | Red | Brown |
| 1008C R91 | 910@25MHz | 35@50MHz | 320 | 1.68 | 380 | K · J · G | White | Brown | Brown |
| 1008C 1R0 | 1000@25MHz | 35@50MHz | 290 | 1.75 | 370 | K · J · G | Brown | Black | Red |
| 1008C 1R2 | 1200@7.9MHz | 35@50MHz | 250 | 2.00 | 310 | K · J · G | Brown | Red | Red |
| 1008C 1R5 | 1500@7.9MHz | 28@50MHz | 200 | 2.30 | 330 | K · J · G | Brown | Green | Red |
| 1008C 1R8 | 1800@7.9MHz | 28@50MHz | 160 | 2.60 | 300 | K · J · G | Brown | Gray | Red |
| 1008C 2R0 | 2000@7.9MHz | 25@50MHz | 160 | 2.80 | 280 | K · J · G | Red | Black | Red |
| 1008C 2R2 | 2200@7.9MHz | 28@50MHz | 160 | 2.80 | 280 | K · J · G | Red | Red | Red |
| 1008C 2R7 | 2700@7.9MHz | 22@25MHz | 140 | 3.20 | 290 | K · J · G | Red | Violet | Red |
| 1008C 3R3 | 3300@7.9MHz | 22@25MHz | 110 | 3.40 | 290 | K · J · G | Orange | Orange | Red |
| 1008C 3R9 | 3900@7.9MHz | 20@25MHz | 100 | 3.60 | 260 | K · J · G | Orange | White | Red |
| 1008C 4R7 | 4700@7.9MHz | 20@25MHz | 90 | 4.00 | 260 | K · J · G | Yellow | Violet | Red |

1、 Test equipment :

L/Q : HP4287A

SRF : HP4291B,HP8753E

2、 IDC : For 15℃ Temperature rise from 25℃ ambient.

3、 Operating temperature : -40℃~+125℃.

CLIDER ENTERPRISE CO., Ltd.

Packaging

DOC.NO

1008CG-type

Product Description

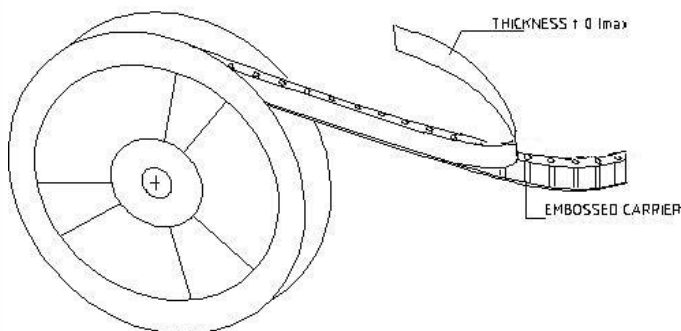
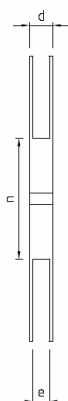
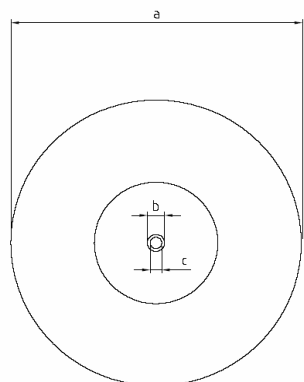
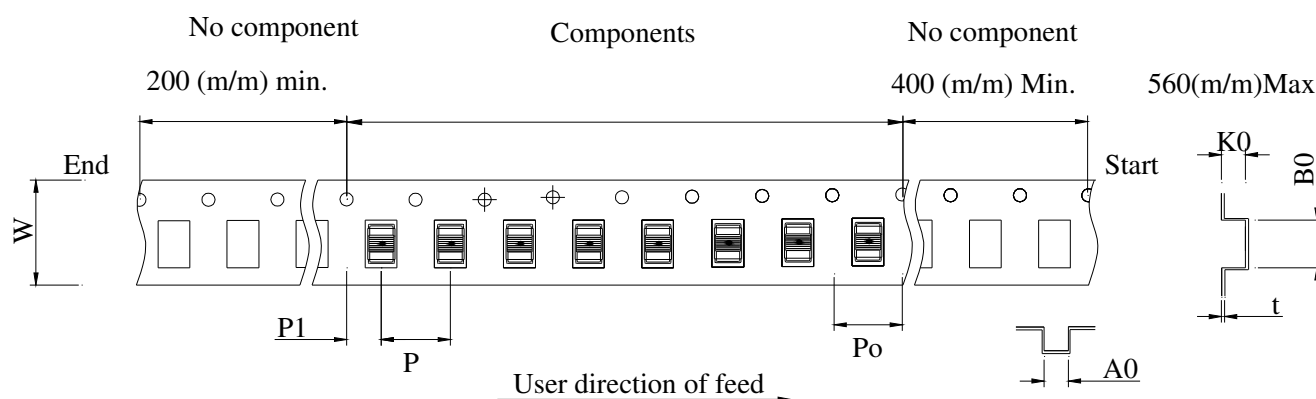
SMD Wire Wound Ceramic Chip Inductor

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| Product Series | t | PI | P | P ₀ | W | A ₀ | B ₀ | K ₀ | a | b | c | d | e | n |
|----------------|---------------|--------------|-------------|----------------|-------------|----------------|----------------|----------------|---------------|--------------|--------------|-------------|-------------|-----------|
| 1008 | 0.25 ±0.05 | 2.0 ±0.05 | 4.0 ±0.1 | 4.0 ±0.1 | 8.0 ±0.2 | 2.73 ±0.1 | 2.90 ±0.1 | 2.34 ±0.1 | 178.0 ±2.0 | 21.0 ±0.8 | 13.0 ±0.8 | 12.5 MAX | 8.4 ±1.0 | 50 MIN |

| Reel | | 5Reel / Box | | 6Box / Carton | |
|-----------|------------|-------------|------------|---------------|-------------|
| Q'ty(Pcs) | Size m/m | Q'ty(Pcs) | Size m/m | Q'ty(Pcs) | Size m/m |
| 2,000 | 180 ϕ | 10,000 | 182×182×80 | 60,000 | 540×210×205 |

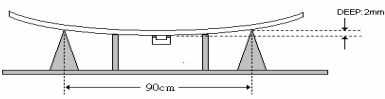
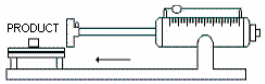
| | | | |
|---------------------|--------------------------------------|--------|-------------|
| Reliability | | DOC.NO | 1008CG-type |
| Product Description | SMD Wire Wound Ceramic Chip Inductor | Page | 4 |
| | | Rev. | B0 |

1. Environmental Performance

| NO | ITEM | SPECIFICATION | TEST CONDITION | TSET METHOD | | |
|-----|-------------------------|--|---|-----------------|--|-----------|
| 1-1 | TEMPERATURE CYCLE | APPEARANCE:NO DAMAGE L CHANGE:WITHIN±3% Q CHANGE:WITHIN±3% | ONE CYCLE | | TO WRITE DOWN MEASURED RESULT FOR THE PARTS AFTER TEST AT ROOM TEMPERATURE FOR 1HOUR AND BEFRON TEST | |
| | | | STEP | TEMPERATURE(°C) | | TIME(MIN) |
| | | | 1 | +125°C±5 | | 30 |
| | | | 2 | -65°C±5 | | 30 |
| | | | TOTAL:10CYCLES | | | |
| 1-2 | HUMIDITY RESISTANCE | | TEMPERATURE:40±2°C RELATIVE HUMIDITY:90±5% TIME:96HRS | | TO WRITE DOWN MEASURED RESULT FOR THE PARTS AFTER TEST AT ROOM TEMPERATURE FOR 1HOUR AND BEFRON TEST | |
| 1-3 | LIFE TEST | | TEMPERATURE:+75°C±5°C TIME:300HRS | | TO WRITE DOWN MEASURED RESULT FOR THE PARTS AFTER TEST AT ROOM TEMPERATURE FOR 1HOUR AND BEFRON TEST | |
| 1-4 | LOWTEMPERATURE STORAGE | | TEMPERATURE:-40°C±2°C TIME:48±2HRS | | TO WRITE DOWN MEASURED RESULT FOR THE PARTS AFTER TEST AT ROOM TEMPERATURE FOR 1HOUR AND BEFRON TEST | |
| 1-5 | HIGHTEMPERATURE STORAGE | | TEMPERATURE:+125°C±2°C TIME: 48±2HRS | | TO WRITE DOWN MEASURED RESULT FOR THE PARTS AFTER TEST AT ROOM TEMPERATURE FOR 1HOUR AND BEFRON TEST | |

| | | | |
|---------------------|--------------------------------------|--------|-------------|
| Reliability | | DOC.NO | 1008CG-type |
| Product Description | SMD Wire Wound Ceramic Chip Inductor | Page | 5 |
| | | Rev. | B0 |

2. Mechanical Performance

| NO | ITEM | SPECIFICATION | TEST CONDITION |
|-----|------------------------------|---|---|
| 2-1 | VIBRATION | | TEST DEVICE SHALL BE SOLDERED ON THE SUBSTRATE OSCILLATION FREQUENCY:10TO 55TO10Hz FOR 1MIN AMPLITUDE:0.75mm TIME:2HRS:FOREACH AXIS(X,Y&Z), TOTAL 6HRS |
| 2-2 | RESISTANCE TO SOLDERING HEAT | | SOLDER COMPOSITION: Sn/Ag/Cu=96.5/3.0/0.5 SOLDER TEMPERATURE:260±5°C IMMERSION TIME:10±1SEC TOTAL:2 CYCLES |
| 2-3 | SOLDERABILITY | THE ELECTRODES SHALL BE AT LEAST 95% COVERED WITH NEW SOLDER COATIN | SOLDER COMPOSITION:Sn/Ag/Cu=96.5/3.0/0.5 SOLDER TEMPERATURE:230±5°C IMMERSION TIME:5±0.5SEC |
| 2-4 | FLEXURE STRENGTH | THE BEING TRIED ARTICLE CAN'T CRACK OR SHED OFF OF SITUATION. | AFTER SOLDERING A CHIP TO A TEST SUBSTRATE,BEND THE USING THE FERROMOLYBDENUM MASS TO GET DOWN THE PCB BOARD TO PRESS TO BEND THE 2 mm DEPTH AND RETURN TO AGAIN THE BREAKOUT MAINTAINING THE 10SEC. SOLDERING SHALL BE RECOMMENDED PC BOARD PATTERN AND REFLOW SOLDERING.  |
| 2-5 | TERMINAL STRENGTH | PRODUCT OF THE SERIES IS MORE THAN 4POUND | AFTER SOLDERING A CHIP TO A TEST SUBSTRATE,WITH THE 0.13~0.15mm THICK SOLDER. SOLDERING SHALL BE RECOMMENDED PC BOARD PATTERN AND REFLOW SOLDERING. THE THRUST ABOUT PUSHER PRODUCT WITH THE VELOCITY OF THE 20mms/1sec AFTER ACCOINTING TO RETURN THE NULL.  |

3. Recommended Lead-Free IR Reflow Conditions :

