# Multilayer Chip Ceramic Capacitor–CC Series

## FEATURES

- New monolithic structre, has high reliability.
- Small size, yet has high electrostatic capactitance.
- Internal electrodes use copper metal pa, High Q ,Can operate at high-voltage levels.
- Supplied in tape on reel.

## APPLICATIONS

- The circuit filter and vibration bell of telephone,electrograph and modern. RF power amplifier and other equipments.

## PRODUCT IDENTIFICATION

| 01 | 02 | | 03 | 04 | 05 | 06 | 07 | 08 |
|---|---|---|---|---|---|---|---|---|
| ZCC | 1608 | — | CG | 100 | J | 500 | N | T |

01

| TyPe | |
|---|---|
| ZCC | Multilayer Chip Ceramic Capacitors |

02

| External Dimensions (LxW)(mm) | |
|---|---|
| 0603 [0201] | 0.6x 0.3 |
| 1005[0402] | 1.0 x 0.5 |
| 1608 [0603] | 1.6 x 0.8 |
| 2012 [0805] | 2.0 x 1.25 |
| 3216 [1206] | 3.2 x 1.6 |
| 3225 [1210] | 3.2 x 2.5 |
| 4532 [1812] | 4.5 x 3.2 |

03

| Delectric Type | |
|---|---|
| CG | COG or NPO |
| B | X7R |
| C | X5R |
| F | Y5V |

04

| Nominal Capacitance | |
|---|---|
| Example | Nominal value |
| 1R0 | 1pF |
| 100 | 10pF |
| 102 | 1000pF |

05

| Tolerance | |
|---|---|
| B | ±0.10pF |
| C | ±0.25pF |
| D | ±0.50pF |
| J | ±5% |
| K | ±10% |
| M | ±20% |

06

| Rate Voltage | |
|---|---|
| 6R3 | 6.3V |
| 100 | 10V |
| 500 | 50V |
| 201 | 200V |

07

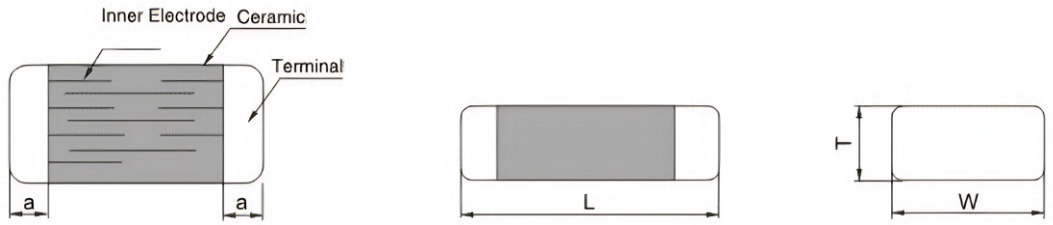
| Termination Type | |
|---|---|
| N | Nickel Barrier Terminatio |
| S | Pure silver |
| C | Pure copper |

08

| Packing | |
|---|---|
| T | Tape & Reel |

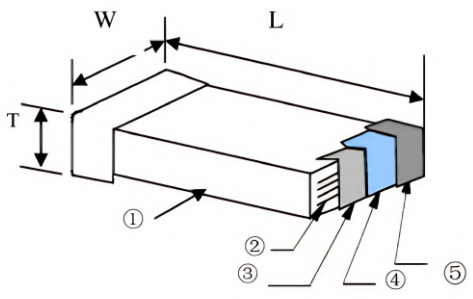
- These Capacitance tolerance B, C, D are just applicable the capacitance that equals to or less than 10pF。

## SHAPE AND DIMENSIONS




| Part Number | Dimensions(mm) | | | |
|---|---|---|---|---|
| | L | W | T | B |
| ZCC0603(0201) | 0.6±0.05 | 0.3±0.05 | 0.3±0.05 | 0.1±0.05 |
| ZCC1005(0402) | 1.0±0.05 | 0.5±0.05 | 0.5±0.05 | 0.2±0.1 |
| ZCC1608(0603) | 1.60±0.15 | 0.80±0.15 | 0.85±0.15 | 0.3±0.1 |
| ZCC2012(0805) | 2.00±0.20 | 1.25±0.20 | 0.8±0.15 | 0.5±0.20 |
| | | | 1.25±0.20 | |
| ZCC3216(1206) | 3.20±0.20 | 1.60±0.20 | 0.8±0.20 | 0.60±0.30 |
| | | | 1.10±0.30 | |
| ZCC3225(1210) | 3.20±0.20 | 2.50±0.20 | 1.25±0.20 | 0.80±0.30 |
| ZCC4532(1812) | 4.50±0.20 | 3.20±0.20 | 1.25±0.20 | 0.80±0.30 |

## STRUCTURE




| NO | Name |
|---|---|
| ① | Ceramic dielectri |
| ② | Inner electrode（Cu） |
| ③ | Substrate electrode |
| ④ | Nickel Layer |
| ⑤ | Tin Layer |

## Temperature Coeifficent/Characteristics

| Dielectric | Reference Temperature Point | Temperature Coefficient | Operation Temperature Range |
|---|---|---|---|
| COG or NPO | 20℃ | 0±30ppm/℃ | -55℃～125℃ |
| X5R | 20℃ | ±15% | -55℃～85℃ |
| X7R | 20℃ | ±15% | -55℃～125℃ |
| Y5V | 20℃ | -80%～+30% | -55℃～85℃ |
| X7S | 20℃ | ±22% | -55℃～125℃ |
| X6S | 20℃ | ±22% | -55℃～105℃ |

● Nominal temperature coefficient and allowed tolerance of class one are decided by the changing of the capacitance between 20**℃** and 85**℃** . Nominal temperature coefficient of class two are decided by the temperature of 20**℃**.

## CAPACITANCE RANGE AND OPERATING VOLTAGE

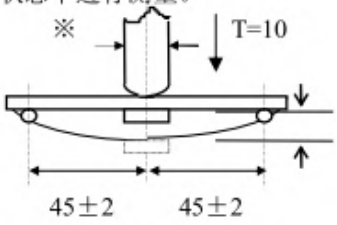
| Size Code | Rate Voltage | Capacitance(pF) | | | |
|---|---|---|---|---|---|
| | | COG(NPO) | X7R | X5R | Y5V |
| 1005(0402) | 6.3V | 0.1-470 | 100～39,000 | 39,000～4,700,000 | 1,000～1,000,000 |
| | 10V | 0.1-470 | 100～39,000 | 39,000～4,700,000 | 1,000～1,000,000 |
| | 16V | 0.1-470 | 100～39,000 | 39,000～4,700,000 | 1,000～220,000 |
| | 25V | 0.1-470 | 100～22,000 | -- | 1,000～1,000,000 |
| | 50V | 0.1-470 | 100～10,000 | -- | 1,000～1,000,000 |
| 1608(0603) | 6.3V | 0.1-4700 | 100～220,000 | 220,000～4,700,000 | 1,000～4,700,000 |
| | 10V | 0.1-4700 | 100～220,000 | 220,000～1,000,000 | 1,000～2,200,000 |
| | 16V | 0.1-4700 | 100～220,000 | 220,000～1,000,000 | 1,000～1,000,000 |
| | 25V | 0.1-4700 | 100～150,000 | -- | 1,000～1,000,000 |
| | 50V | 0.1-4700 | 100～100,000 | -- | 1,000～220,000 |
| 2012(0805) | 6.3V | 0.3-10,000 | 100～1,000,000 | 1,000,000～10,000,000 | 1,000～10,000,000 |
| | 10V | 0.3-10,000 | 100～1,000,000 | 1,000,000～4,700,000 | 1,000～10,000,000 |
| | 16V | 0.3-10,000 | 100～1,000,000 | -- | 1,000～2,200,000 |
| | 25V | 0.3-10,000 | 100～1,000,000 | -- | 1,000～2,200,000 |
| | 50V | 0.3-10,000 | 100～100,000 | -- | 1,000～1,000,000 |
| 3212(1206) | 6.3V | 0.5-33,000 | 100～1,200,000 | 1,200,000～10,000,000 | 1,000～47,000,000 |
| | 10V | 0.5-33,000 | 100～1,200,000 | 1,200,000～10,000,000 | 1,000～22,000,000 |
| | 16V | 0.5-33,000 | 100～1,200,000 | 1,200,000～10,000,000 | 1,000～10,000,000 |
| | 25V | 0.5-33,000 | 100～4,700,000 | -- | 1,000～2,200,000 |
| | 50V | 0.5-12,000 | 100～470,000 | -- | 1,000～1,000,000 |

| Size Code | Rate Voltage | Capacitance(pF) | | | |
|---|---|---|---|---|---|
| | | COG(NPO) | X7R | X5R | Y5V |
| 3225(1210) | 6.3V | 10-10,000 | 220～3,300,000 | 3.3uF～22uF | 4,700～47,000,000 |
| | 10V | 10-10,000 | 220～3,300,000 | 3.3uF～22uF | 4,700～47,000,000 |
| | 16V | 10-10,000 | 220～3,300,000 | 3.3uF～10uF | 4,700～10,000,000 |
| | 25V | 10-10,000 | 220～2,200,000 | -- | 4,700～10,000,000 |
| | 50V | 10-8,200 | 220～1,000,000 | -- | 4,700～1,500,000 |
| 4532(1812) | 6.3V | 10-15,000 | 470～10,000,000 | 10uF～22uF | 10,000～33,000,000 |
| | 10V | 10-15,000 | 470～10,000,000 | 10uF～22uF | 10,000～22,000,000 |
| | 16V | 10-15,000 | 470～10,000,000 | 10uF～22uF | 10,000～22,000,000 |
| | 25V | 10-15,000 | 470～10,000,000 | -- | 10,000～10,000,000 |
| | 50V | 10-12,000 | 470～2,200,000 | -- | 10,000～10,000,000 |

## RELIABILITY TEST

<table>
<tr><td>项目<br>Item</td><td colspan="2">技术规格<br>Technical Specification</td><td colspan="3">测 试 方 法<br>Test Method and Remarks</td></tr>
<tr><td rowspan="4">容量<br>Capacitance</td><td rowspan="3">I类<br>Class I</td><td rowspan="3">应符合指定的误差级别<br>Should be within the specified tolerance.</td><td>标称容量<br>Capacitance</td><td>测试频率<br>Measuring Frequency</td><td>测试电压<br>Measuring Voltage</td></tr>
<tr><td>≤1000pF</td><td>1MHZ±10%</td><td rowspan="2">1.0±0.2Vrms</td></tr>
<tr><td>＞1000 pF</td><td>1KHZ±10%</td></tr>
<tr><td>II类<br>Class II</td><td>应符合指定的误差级别<br>Should be within the specified tolerance.</td><td colspan="3">测试温度： 25℃±3℃<br>Test Temprature: 25℃±3℃<br>C≤10μF：测试频率: 1KHZ±10%<br>测试电压: 1.0±0.2Vrms<br>Test Frequency: 1KHZ±10%<br>Test Voltage: 1.0±0.2Vrms<br>C＞10μF<br>X7R、X5R、X7S、X6S、Y5V：<br>测试频率: 120±24 HZ<br>测试电压:0.5±0.1Vrms<br>Test Frequency: 120±24 HZ<br>Test Voltage: 0.5±0.1Vrms<br>Z5U：测试频率:1±0.1KHZ<br>测试电压:0.5±0.05Vrms<br>Test Frequency: 1±0.1KHZ<br>Test Voltage: 0.5±0.05Vrms</td></tr>
<tr><td rowspan="5">损耗角正切<br>(DF, tan δ)<br>Dissipation Factor</td><td rowspan="5">I类<br>Class I</td><td>DF</td><td>标称容量<br>Capacitance</td><td>测试频率<br>Measuring Frequency</td><td>测试电压<br>Measuring Voltage</td></tr>
<tr><td>≤0.56%</td><td>Cr＜5 pF</td><td>1MHZ±10%</td><td rowspan="4">1.0±0.2Vrms</td></tr>
<tr><td>1.5[(150/Cr)+7]×10$^{-4}$</td><td>5pF≤Cr＜50 pF</td><td>1MHZ±10%</td></tr>
<tr><td>≤0.15%</td><td>50pF≤Cr≤1000 pF</td><td>1MHZ±10%</td></tr>
<tr><td>≤0.15%</td><td>＞1000 pF</td><td>1KHZ±10%</td></tr>
</table>

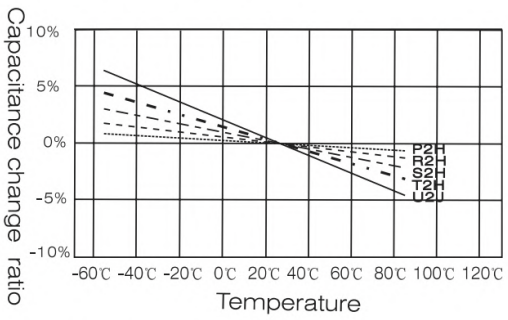
<table>
<tr><th>项目<br>Item</th><th colspan="8">技术规格<br>Technical Specification</th><th>测 试 方 法<br>Test Method and Remarks</th></tr>
<tr><td rowspan="5">损耗角正切(DF, tan δ)<br>Dissipation Factor</td><td rowspan="5">II类<br>Class II</td><td rowspan="2">X7R/<br>X5R<br>X7S/<br>X6S<br>（≥0402）</td><td>≥50V</td><td>25V</td><td>16V</td><td>10V</td><td>6.3V</td><td rowspan="5">C≤10μF<br>测试频率: 1KHZ±10%<br>测试电压: 1.0±0.2Vrms<br>Test Frequency: 1KHZ±10%<br>Test Voltage: 1.0±0.2Vrms<br><br>C＞10μF X7R、X5R、X7S、X6S、Y5V<br>测试频率: 120±24 HZ<br>测试电压:0.5±0.1Vrms<br>Test Frequency: 120±24HZ<br>Test Voltage: 0.5±0.1Vrms Z5U:测试频率:1±0.1KHZ<br>测试电压:0.5±0.05Vrms<br>Test Frequency: 1±0.1KHZ<br>Test Voltage: 0.5±0.05Vrms</td></tr>
<tr><td>≤2.5%</td><td>≤3.5%（C＜0.47μF）<br>≤10.0%（C≥0.47μF）</td><td>≤3.5%（C＜0.47μF）<br>≤10.0%（C≥0.47μF）</td><td>≤5.0%（C＜0.15μF）<br>≤10.0%（C≥0.15μF）</td><td>≤5.0%（C＜0.15μF）<br>≤10.0%（C≥0.15μF）</td></tr>
<tr><td rowspan="2">X7R/<br>X5R<br>X7S/<br>X6S<br>（＜0402）</td><td>≥50V</td><td>25V</td><td>16V</td><td>10V</td><td>6.3V</td></tr>
<tr><td>≤3.5%</td><td>≤5.0%</td><td>≤5.0%（C＜0.047μF）<br>≤10%（C＞0.047μF）</td><td>≤7.5%（C＜0.047μF）<br>≤10%（C＞0.047μF）</td><td>≤7.5%（C＜0.047μF）<br>≤10%（C＞0.047μF）</td></tr>
<tr><td>Y5V<br>Z5U</td><td>≥25V</td><td>16V</td><td>10V</td><td>6.3V</td></tr>
<tr><td>≤7.0%（C＜1.0μF）<br>≤9.0%（C≥1.0μF）</td><td>≤15%</td><td>≤15%</td><td>≤15%</td></tr>
<tr><td rowspan="3">绝缘电阻(IR)<br>Insulation Resistance</td><td>I类<br>Class I</td><td colspan="7">C≤10 nF, Ri≥50000MΩ<br>C＞10 nF, Ri• $C_R$≥500S</td><td rowspan="3">测试电压：额定电压（最高 500V）<br>测试时间: 60±5 秒<br>测试湿度：≤75%<br>测试温度： 25℃±3℃<br>测试充放电电流：≤50mA<br>Measuring Voltage: Rated Voltage（Max 500V）<br>Duration: 60±5s<br>Test Humidity: ≤75%<br>Test Temprature: 25℃±5℃<br>Test Current: ≤50mA</td></tr>
<tr><td rowspan="2">II类<br>Class II</td><td>X7R/<br>X5R/<br>X7S/<br>X6S</td><td colspan="6">C≤25 nF, Ri≥10000MΩ<br>C＞25 nF, Ri• $C_R$＞100S</td></tr>
<tr><td>Y5V<br>Z5U</td><td colspan="6">C≤25 nF, Ri≥4000MΩ<br>C＞25 nF, Ri• $C_R$＞100S</td></tr>
<tr><td>介质耐电强度(DWV)<br>Dielectric Withstanding Voltage</td><td colspan="8">不应有介质被击穿或损伤<br>No breakdown or damage.</td><td>测量电压：<br>Ⅰ类:300%额定电压 Ⅱ类:250%额定电压<br>时间：1～5 秒 充/放电电流：不应超过50mA<br>(这部分说明不包括中高压 MLCC)<br>Measuring Voltage:<br>Class Ⅰ:300% Rated voltage<br>Class Ⅱ:250% Rated voltage<br>Duration: 1～5s<br>Charge/ Discharge Current: 50mA max.<br>(This method excludes high-voltage MLCC)</td></tr>
</table>

<table>
<tr><td>项目<br>Item</td><td colspan="4">技术规格<br>Technical Specification</td><td>测 试 方 法<br>Test Method and Remarks</td></tr>
<tr><td>可焊性<br>Solderability</td><td colspan="4">上锡率应大于 95%<br>外观：无可见损伤.<br>At least 95% of the terminal electrode is covered by new solder.<br>Visual Appearance: No visible damage.</td><td>将电容在 80~120℃的温度下预热 10~30 秒.<br>Preheating conditions:80 to 120℃; 10~30s.<br>有铅焊料：(Sn/Pb：63/37)<br>浸锡温度:235±5℃<br>浸锡时间:2±0.5s<br>Solder Temperature:235±5℃<br>Duration:2±0.5s<br>无铅焊料：<br>浸锡温度:245±5℃<br>浸锡时间:2±0.5s<br>Solder Temperature:245±5℃<br>Duration:2±0.5s</td></tr>
<tr><td rowspan="5">耐焊接热<br>Resistance to Soldering Heat</td><td>项目<br>Item</td><td>NPO 至 SL<br>NPO to SL</td><td>X7R/X5R/<br>X7S/X6S</td><td>Y5V、<br>Z5U</td><td rowspan="5">将电容在 100~200℃的温度下预热 10±2 分钟.<br>浸锡温度: 265±5℃<br>浸锡时间: 10±1s<br>然后取出溶剂清洗干净，在 10 倍以上的显微镜底下观察.<br>放置时间：24±2 小时 放置条件：室温<br>Preheating conditions: 100 to 200℃; 10±2min.<br>Solder Temperature: 265±5℃<br>Duration: 10±1s<br>Clean the capacitor with solvent and examine it with a 10X(min.) microscope.<br>Recovery Time: 24±2h<br>Recovery condition: Room temperature</td></tr>
<tr><td>ΔC/C</td><td>≤ ± 0.5% 或 ± 0.5PF，取较大值<br>≤±0.5% or ±0.5PF, whichever is larger</td><td>-5~+10%</td><td>-10~+20%</td></tr>
<tr><td>DF</td><td colspan="3">同初始标准<br>Same to initial value.</td></tr>
<tr><td>IR</td><td colspan="3">同初始标准<br>Same to initial value.</td></tr>
<tr><td colspan="4">外观：无可见损伤 上锡率：≥95%<br>Appearance: No visible damage. At least 95% of the terminal electrode is covered by new solder.</td></tr>
<tr><td>抗弯曲强度<br>Resistance to Flexure of Substrate<br>(Bending Strength)</td><td colspan="4">外观：无可见损伤.<br>Appearance: No visible damage.</td><td rowspan="2">试验基板：$Al_2O_3$ 或 PCB<br>弯曲深度：1mm<br>施压速度：0.5mm/sec.<br>单位：mm<br>应在弯曲状态下进行测量。<br>  <br><br>Test Board: $Al_2O_3$ or PCB<br>Warp: 1mm<br>Speed: 0.5mm/sec.<br>Unit: mm<br>The measurement should be made with the board in the bending position.</td></tr>
<tr><td>ΔC/C</td><td colspan="3">≤±10%</td></tr>
</table>

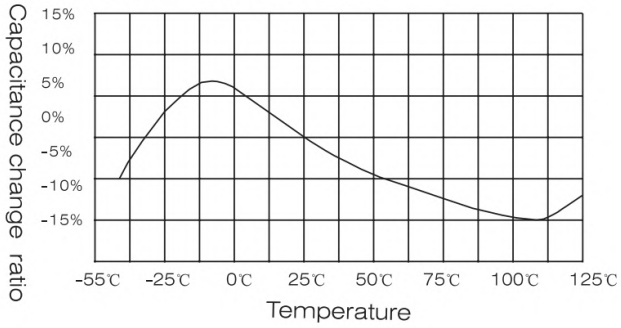
<table>
<tr><th>项目<br>Item</th><th>技术规格<br>Technical Specification</th><th>测 试 方 法<br>Test Method and Remarks</th></tr>
<tr><td>端头结合强度<br>Termination Adhesion</td><td>外观无可见损伤<br>No visible damage.</td><td>施加的力：5N　　时间：10±1S<br>Applied Force: 5N　　Duration: 10±1S</td></tr>
<tr><td>温度循环<br>Temperature Cycle</td><td>ΔC/C:<br>Ⅰ类：≤±1%或±1pF，<br>取两者中最大者<br>Ⅱ类：<br>B,X,BS,DS: ≤±10%<br>E,F: ≤±20%<br><br>Class Ⅰ: ≤±1% or ±1pF,<br>whichever is larger.<br>Class Ⅱ:<br>B,X,BS,DS: ≤±10%<br>E,F: ≤±20%</td><td>预处理* (2类)：上限类别温度，1小时　恢复：24±1h<br>初始测量<br>循环次数：5次，一个循环分以下4步：<table><tr><th>阶段</th><th>温度（℃）</th><th>时间（分钟）</th></tr><tr><td>第1步</td><td>下限温度(NPO/X7R/X7S/X6S/X5R:-55 Y5V:-25 Z5U:+10)</td><td>30</td></tr><tr><td>第2步</td><td>常温　(+20)</td><td>2～3</td></tr><tr><td>第3步</td><td>上限温度(NPO/X7R/X7S:+125 Y5V/Z5U/X5R:+85　X6S:+105)</td><td>30</td></tr><tr><td>第4步</td><td>常温　(+20)</td><td>2～3</td></tr></table>试验后放置（恢复）时间：24±2h<br>Preheating conditions: up-category temperature, 1h<br>Recovery time: 24±1h<br>Initial Measurement<br>Cycling Times: 5 times, 1 cycle, 4 steps:<table><tr><th>Step</th><th>Temperature（℃）</th><th>Time (min.)</th></tr><tr><td>1</td><td>Low-category temp. (NPO/X7R/X7S/X6S/X5R:-55 Y5V:-25 Z5U:+10)</td><td>30</td></tr><tr><td>2</td><td>Normal temp. (+20)</td><td>2～3</td></tr><tr><td>3</td><td>Up-category temp. (NPO/X7R/X7S: +125 Y5V/Z5U/X5R:+85 X6S:+105)</td><td>30</td></tr><tr><td>4</td><td>Normal temp. (+20)</td><td>2～3</td></tr></table>Recovery time after test: 24±2h</td></tr>
<tr><td rowspan="5">潮湿试验<br>Moisture Resistance</td><td>Δ C/C</td><td>Ⅰ类: ≤±2%或±1pF,<br>取两者之中较大者<br>Ⅱ类: B,X,BS,DS:≤±10%<br>E,F: ≤±30%<br>Class Ⅰ: ≤±2% or ±1pF,<br>whichever is larger.<br>Class Ⅱ: B,X,BS,DS:≤±10%<br>E,F: ≤±30%</td><td rowspan="5">温度：40±2℃<br>湿度：90~95%RH<br>时间：500小时<br>放置条件：室温<br>放置时间：24小时(Ⅰ类)；48小时(Ⅱ类)<br>Temperature：40±2℃<br>Humidity：90~95%RH<br>Duration：500h<br>Recovery conditions：Room temperature<br>Recovery Time：24h (Class1) or 48h (Class2)</td></tr>
<tr><td>DF</td><td>≤2倍初始标准<br>Not more than twice of initial value.</td></tr>
<tr><td rowspan="2">IR</td><td>Ⅰ类：Ri≥2500MΩ或 Ri• $C_R$≥25S<br>取两者之中较小者.<br>Class Ⅰ: Ri≥2500MΩ或 Ri• $C_R$≥<br>25S whichever is smaller.</td></tr>
<tr><td>Ⅱ类：Ri≥1000MΩ或 Ri• $C_R$≥25S<br>取两者之中较小者.<br>Class Ⅱ: Ri≥1000MΩ或 Ri• $C_R$≥<br>25S whichever is smaller.</td></tr>
<tr><td colspan="2">外观：无损伤<br>Appearance: No visible damage.</td></tr>
</table>

## CHARACTER PROFILES

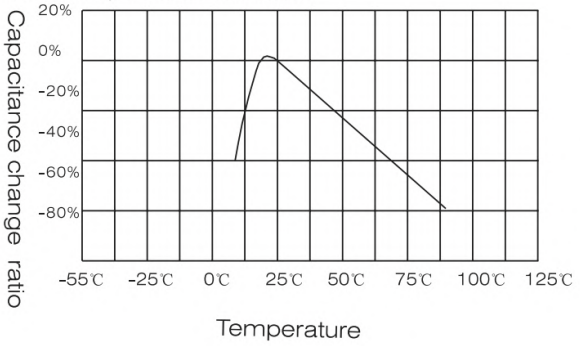
temperature coefficent



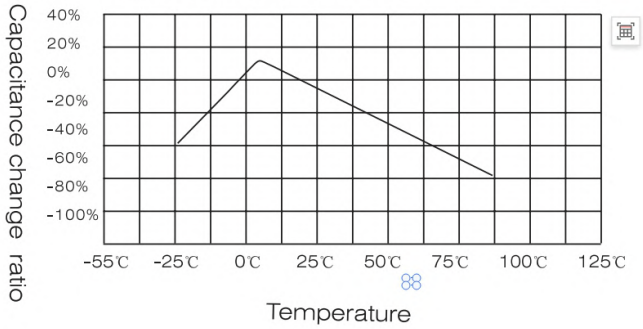

X7R tempreture characteristics




Z5U temperature character

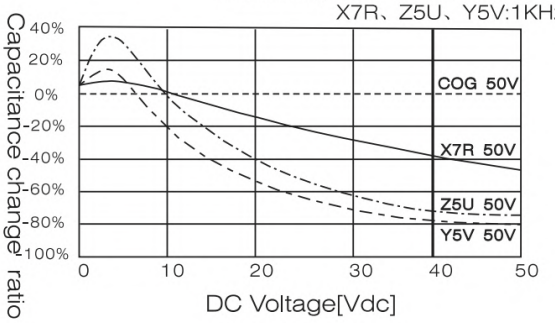



Y5V temperature characteristics



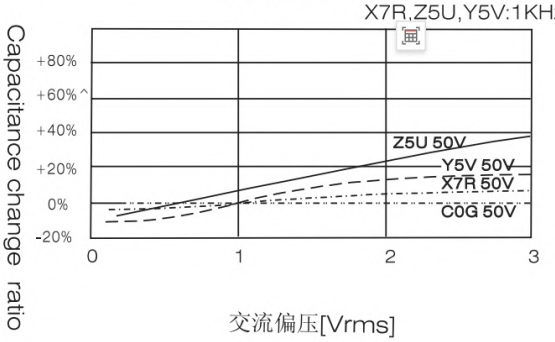

- DC Voltage Characteristics

Measuring condition COG :1MHz
X7R、Z5U、Y5V:1KHz

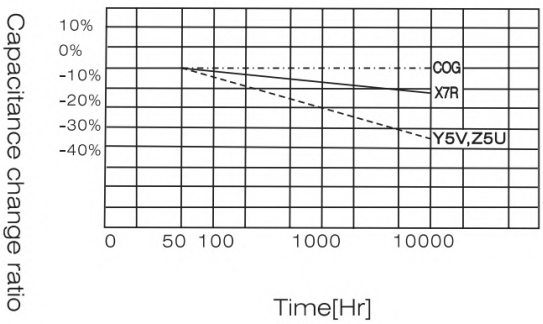



- Capacitance-AC Voltage Characterics

Measuring condition：COG :1MHz
X7R,Z5U,Y5V:1KHz

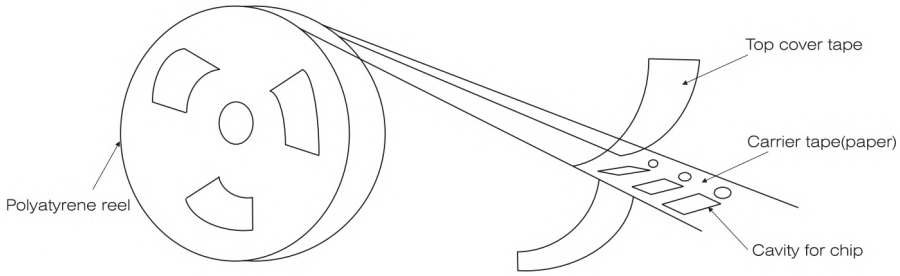



- Capacitance change aging

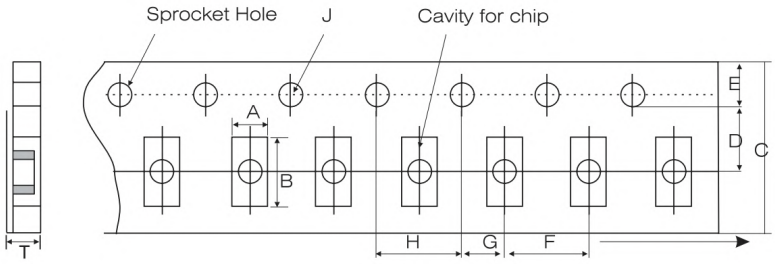


# PACKAING STYLE

## • Taping Material




## • Reel Dimensions(mm)




| Size Code | A | B | C | D | E | F | G | H | J | T |
|---|---|---|---|---|---|---|---|---|---|---|
| 1005 | 0.65±0.10 | 1.15±0.10 | 8.00±0.10 | 3.50±0.05 | 1.75±0.10 | 2.00±0.05 | 2.00±0.05 | 4.00±0.10 | 1.50±0.10 | Below 0.80 |
| 1608 | 1.10±0.20 | 1.90±0.20 | 8.00±0.20 | 3.50±0.05 | 1.75±0.10 | 4.00±0.10 | 2.00±0.10 | 4.00±0.10 | 1.50±0.10 | Below 1.10 |
| 2012 | 1.45±0.20 | 2.30±0.20 | 8.00±0.20 | 3.50±0.05 | 1.75±0.10 | 4.00±0.10 | 2.00±0.10 | 4.00±0.10 | 1.50±0.10 | Below 1.50 |
| 1206 | 1.80±0.20 | 3.40±0.20 | 8.00±0.20 | 3.50±0.05 | 1.75±0.10 | 4.00±0.10 | 2.00±0.10 | 4.00±0.10 | 1.50±0.10 | Below 1.80 |
| 3225 | 2.70±0.10 | 3.40±0.20 | 12.00±0.10 | 5.50±0.05 | 1.75±0.10 | 4.00±0.10 | 2.00±0.10 | 4.00±0.10 | 1.50±0.10 | Below3.20 |
| 4532 | 3.66±0.10 | 4.95±0.20 | 12.00±0.10 | 5.50±0.05 | 1.75±0.10 | 8.00±0.10 | 2.00±0.10 | 4.00±0.10 | 1.50±0.10 | Below 4.00 |

# STORAGE

## • Quantity

| Type | PCS/REEL | PCS/INNERBOX | PCS/OUTERBOX |
|---|---|---|---|
| 1005(0402) | 10000 | 60000 | 600,000 |
| 1608(0603) | 4000 | 24000 | 240,000 |
| 2012(0805) | 4000 | 24000 | 240,000 |
| 3216(1206) | 4000 | 24000 | 240,000 |
| 3225(1210) | 2000 or 1000 | 5000 | 500,000 |
| 4532(1812) | 1000 or 500 | 2500 | 25,000 |