

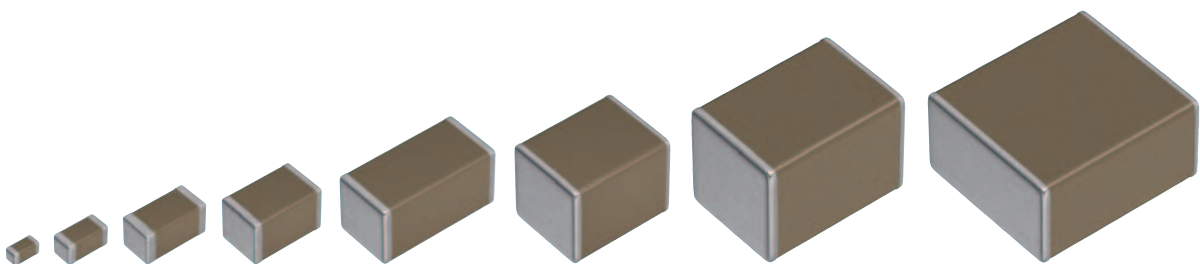
# 积层贴片陶瓷片式电容器

车载等级，一般（Up to 75V）

## CGA系列

|      |                  |
|------|------------------|
| CGA1 | 0603 [0201 inch] |
| CGA2 | 1005 [0402 inch] |
| CGA3 | 1608 [0603 inch] |
| CGA4 | 2012 [0805 inch] |
| CGA5 | 3216 [1206 inch] |
| CGA6 | 3225 [1210 inch] |
| CGA8 | 4532 [1812 inch] |
| CGA9 | 5750 [2220 inch] |

\* 表示尺寸代码。JIS[EIA]



## 使用注意事项

在使用本产品前，请务必随附采购规格书。

## 安全注意事项

使用本产品时，请注意安全事项。

### 注意

1. 本目录中的产品，被装载到汽车上或车载产品，按照本目录中记载的范围、条件，可使用在汽车标准用途中。另外，包含本产品的该汽车或车用产品，应以通常的操作、使用方法来运用。  
汽车以外、对于需要高度安全性和可靠性的，或者设备的故障，误动作，运转不良可能会给人的生命，身体及财产等造成损害，以及有可能产生莫大社会影响的以下用途（以下称‘特定用途’）中的适用性，性能发挥，品质，本公司不予保证。  
因用于超过本目录所规定的范围、条件，或用于其他特定用途而产生损失、伤害等情况，我司恕不承担责任，请谅解。客户预定在本产品目录的范围、条件之外，或者在特定用途中使用，请事先咨询本公司相关部门。本公司会配合客户需求，一起协商不同于本产品目录中所记载的使用用途。

- |                            |                    |
|----------------------------|--------------------|
| (1) 航空，航天设备                | (8) 公共性的高度信息处理设备   |
| (2) 运输设备（电车，船舶等）           | (9) 军用设备           |
| (3) 医疗设备（除《药事法》分类中的Ⅰ、Ⅱ级以外） | (10) 电热用品，燃烧设备     |
| (4) 发电控制设备                 | (11) 防灾防盗设备        |
| (5) 核动力相关设备                | (12) 各种安全装置        |
| (6) 海底设备                   | (13) 其他被认定为特定用途的用途 |
| (7) 交通工具控制设备               |                    |

此外，在对使用本产品的设备进行设计时，请根据该设备的使用用途及状态确保保护电路及装置，并设置备份电路。

另外，虽然本产品目录中记载的产品是设想在上述汽车或车用产品上使用的，但我们也不会禁止其使用在不要求类似汽车等级的高安全性和信赖性，或对生命、身体、财产，及对社会造成影响较小的一般电子设备的应用情形。因此，本产品目录中记载的产品可应用一般电子设备的通用标准，当以通常的操作、使用方法来使用一般电子设备时，关于其使用也适用本共通使用注意事项。

2. 本产品目录中记载的产品因改良及其他原因可能在不经预告的情况下进行变更或停止供应。
3. 关于本产品目录中记载的产品，本公司备有记载了各产品的规格及安全注意事项的“交货规格书”。在选用产品时，建议签定交货规格书。
4. 在出口本产品目录中记载的产品时，有时会被归为“外汇及外贸管理法”中规定的管制货物等。在这种情况下，需要有依据该法规定的出口许可。
5. 关于本产品目录的内容，未经本公司许可不得擅自转载或复制。
6. 因使用本产品目录中记载的产品而发生涉及本公司或第三者的知识产权及其他权利的问题时，本公司对此将不承担责任。并且，本公司不对该等权利的实施权办理许可。
7. 本产品目录适用于从本公司或本公司的正规代理商购买的产品。从其他第三者购买的产品不在适用范围之内。

注意：伴随网站的更新，由于系统限制的原因以及统一产品目录型号的需要，从2013年1月开始，TDK将在产品目录中使用新型号。新目录型号将在以后所有根据产品目录订货时使用，但不适用于OEM订购。  
目录型号的最后5位数与产品标签上的交货型号（内部控制编号）不同，请注意。  
详细信息请联系当地TDK销售代表。

（例）

| 产品目录发行日期   | 目录型号                  | 交货型号（交货标签上的标识）      |
|------------|-----------------------|---------------------|
| 2012年12月以前 | C1608C0G1E103J(080AA) | C1608C0G1E103JT000N |
| 2013年1月及以后 | C1608C0G1E103J080AA   | C1608C0G1E103JT000N |

# CGA 系列

## 一般 (Up to 75V)



Type: CGA1/0603 [0201 inch], CGA2/1005 [0402 inch], CGA3/1608 [0603 inch],  
CGA4/2012 [0805 inch], CGA5/3216 [1206 inch], CGA6/3225 [1210 inch],  
CGA8/4532 [1812 inch], CGA9/5750 [2220 inch]

### ■ 系列概要

TDK积层陶瓷贴片电容器的车载等级CGA系列，是由诱导体材料以及内部电极、导电材料相互积层的表面贴装（SMD）产品。单片式结构保证优异的机械强度和高可靠性。

又因其简单的构造，跟其他种类电容相比具有更低的ESR、ESL，频率特性良好。目前可以做到47 $\mu$ F的最大电容值，满足薄膜电容和电解电容的容量领域。

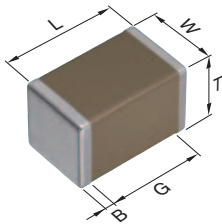
### ■ 特点

- 单片式结构保证优异的机械强度和高可靠性。
- 由于ESR, ESL低，频率特性良好，更有利于设计与理论值的相近的回路。
- 低ESR带来的低自发热，可以耐更高的纹波电流。
- 无极性。
- 符合AEC-Q200车载标准。

### ■ 应用

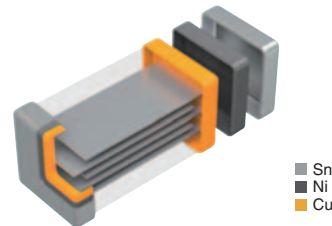
- 所有车载用电子机器 (引擎控制单元, 传感器模块, 电池线等)
- 共振回路 (COG)
- 要求高信赖性的装置

### ■ 形状与尺寸



|   |      |
|---|------|
| L | 主体长度 |
| W | 主体宽度 |
| T | 主体高度 |
| B | 端子宽度 |
| G | 端子间距 |

### ■ 产品构造图



诱导体和内部电极交互叠层构造。利用单片回路的简单设计，拥有更优越的机械强度和更好的频率特性。

Dimensions in mm

| Type | L               | W               | T               | B         | G         |
|------|-----------------|-----------------|-----------------|-----------|-----------|
| CGA1 | 0.60 $\pm$ 0.03 | 0.30 $\pm$ 0.03 | 0.30 $\pm$ 0.03 | 0.10 min. | 0.20 min. |
| CGA2 | 1.00 $\pm$ 0.05 | 0.50 $\pm$ 0.05 | 0.50 $\pm$ 0.05 | 0.10 min. | 0.30 min. |
| CGA3 | 1.60 $\pm$ 0.10 | 0.80 $\pm$ 0.10 | 0.80 $\pm$ 0.10 | 0.20 min. | 0.30 min. |
| CGA4 | 2.00 $\pm$ 0.20 | 1.25 $\pm$ 0.20 | 1.25 $\pm$ 0.20 | 0.20 min. | 0.50 min. |
| CGA5 | 3.20 $\pm$ 0.20 | 1.60 $\pm$ 0.20 | 1.60 $\pm$ 0.20 | 0.20 min. | 1.00 min. |
| CGA6 | 3.20 $\pm$ 0.40 | 2.50 $\pm$ 0.30 | 2.50 $\pm$ 0.30 | 0.20 min. | —         |
| CGA8 | 4.50 $\pm$ 0.40 | 3.20 $\pm$ 0.40 | 2.50 $\pm$ 0.30 | 0.20 min. | —         |
| CGA9 | 5.70 $\pm$ 0.40 | 5.00 $\pm$ 0.40 | 2.50 $\pm$ 0.30 | 0.20 min. | —         |

\* 尺寸公差是代表价值。

## ■ 目录型号的识别法

|            |          |          |          |            |           |            |          |            |          |          |
|------------|----------|----------|----------|------------|-----------|------------|----------|------------|----------|----------|
| <b>CGA</b> | <b>6</b> | <b>P</b> | <b>1</b> | <b>X7R</b> | <b>1N</b> | <b>106</b> | <b>M</b> | <b>250</b> | <b>A</b> | <b>C</b> |
| (1)        | (2)      | (3)      | (4)      | (5)        | (6)       | (7)        | (8)      | (9)        | (10)     | (11)     |

## (1) 系列名称

## (2) 尺寸 L x W (mm)

| 代码 | EIA    | 长度   | 宽度   | 端子宽度 |
|----|--------|------|------|------|
| 1  | CC0201 | 0.60 | 0.30 | 0.10 |
| 2  | CC0402 | 1.00 | 0.50 | 0.10 |
| 3  | CC0603 | 1.60 | 0.80 | 0.20 |
| 4  | CC0805 | 2.00 | 1.25 | 0.20 |
| 5  | CC1206 | 3.20 | 1.60 | 0.20 |
| 6  | CC1210 | 3.20 | 2.50 | 0.20 |
| 8  | CC1812 | 4.50 | 3.20 | 0.20 |
| 9  | CC2220 | 5.70 | 5.00 | 0.20 |

## (3) 厚度代码

| 代码 | 产品厚度    |
|----|---------|
| A  | 0.30 mm |
| B  | 0.50 mm |
| C  | 0.60 mm |
| E  | 0.80 mm |
| F  | 0.85 mm |
| H  | 1.15 mm |
| J  | 1.25 mm |
| L  | 1.60 mm |
| M  | 2.00 mm |
| N  | 2.30 mm |
| P  | 2.50 mm |
| Q  | 2.80 mm |
| R  | 3.20 mm |

## (4) 寿命试验的电压条件

| 代码 | 条件         |
|----|------------|
| 1  | 1 × R.V.   |
| 2  | 2 × R.V.   |
| 3  | 1.5 × R.V. |

## (5) 温度特性

| 温度特性 | 温度系数或电容变化率  | 温度范围          |
|------|-------------|---------------|
| C0G  | 0±30 ppm/°C | -55 to +125°C |
| X5R  | ±15%        | -55 to +85°C  |
| X7R  | ±15%        | -55 to +125°C |
| X7S  | ±22%        | -55 to +125°C |

## (6) 额定电压(DC)

| 代码 | 电压 (DC) |
|----|---------|
| 0J | 6.3V    |
| 1A | 10V     |
| 1C | 16V     |
| 1E | 25V     |
| 1V | 35V     |
| 1H | 50V     |
| 1N | 75V     |

## (7) 标称电容(pF)

电容量以 pF(微微法拉) 为单位, 并用三个文字表示。最初两个文字表示电容的第一位和第二位有效数字。第三个文字表示接在有效数字后的零的个数。含有小数点时用 R 表示。

(例) 0R5 = 0.5pF  
101 = 100pF  
225 = 2,200,000pF = 2.2μF

## (8) 电容容差

| 代码 | 容差      |
|----|---------|
| C  | ±0.25pF |
| D  | ±0.50pF |
| J  | ±5%     |
| K  | ±10%    |
| M  | ±20%    |

## (9) 厚度

| 代码  | 产品厚度    |
|-----|---------|
| 030 | 0.30 mm |
| 050 | 0.50 mm |
| 060 | 0.60 mm |
| 080 | 0.80 mm |
| 085 | 0.85 mm |
| 115 | 1.15 mm |
| 125 | 1.25 mm |
| 160 | 1.60 mm |
| 200 | 2.00 mm |
| 230 | 2.30 mm |
| 250 | 2.50 mm |
| 280 | 2.80 mm |
| 320 | 3.20 mm |

## (10) 包装形式

| 代码 | 形式            |
|----|---------------|
| A  | 178mm卷筒、4mm间距 |
| B  | 178mm卷筒、2mm间距 |
| K  | 178mm卷筒、8mm间距 |

## (11) 特殊指定代码

| 代码    | 内容        |
|-------|-----------|
| A,B,C | 本公司内部管理符号 |

## 电容范围图

## CGA1/0603 [0201 inch]

| 电容     |     | C0G         |             | X7R         |             |             |             |              |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| (pF)   | 代码  | 1H<br>(50V) | 1E<br>(25V) | 1H<br>(50V) | 1E<br>(25V) | 1C<br>(16V) | 1A<br>(10V) | 0J<br>(6.3V) |
| 1      | 010 |             |             |             |             |             |             |              |
| 1.5    | 1R5 |             |             |             |             |             |             |              |
| 2      | 020 |             |             |             |             |             |             |              |
| 2.2    | 2R2 |             |             |             |             |             |             |              |
| 3      | 030 |             |             |             |             |             |             |              |
| 3.3    | 3R3 |             |             |             |             |             |             |              |
| 4      | 040 |             |             |             |             |             |             |              |
| 4.7    | 4R7 |             |             |             |             |             |             |              |
| 5      | 050 |             |             |             |             |             |             |              |
| 6      | 060 |             |             |             |             |             |             |              |
| 6.8    | 6R8 |             |             |             |             |             |             |              |
| 7      | 070 |             |             |             |             |             |             |              |
| 8      | 080 |             |             |             |             |             |             |              |
| 9      | 090 |             |             |             |             |             |             |              |
| 10     | 100 |             |             |             |             |             |             |              |
| 12     | 120 |             |             |             |             |             |             |              |
| 15     | 150 |             |             |             |             |             |             |              |
| 18     | 180 |             |             |             |             |             |             |              |
| 22     | 220 |             |             |             |             |             |             |              |
| 27     | 270 |             |             |             |             |             |             |              |
| 33     | 330 |             |             |             |             |             |             |              |
| 39     | 390 |             |             |             |             |             |             |              |
| 47     | 470 |             |             |             |             |             |             |              |
| 56     | 560 |             |             |             |             |             |             |              |
| 68     | 680 |             |             |             |             |             |             |              |
| 82     | 820 |             |             |             |             |             |             |              |
| 100    | 101 |             |             |             |             |             |             |              |
| 150    | 151 |             |             |             |             |             |             |              |
| 220    | 221 |             |             |             |             |             |             |              |
| 330    | 331 |             |             |             |             |             |             |              |
| 470    | 471 |             |             |             |             |             |             |              |
| 680    | 681 |             |             |             |             |             |             |              |
| 1,000  | 102 |             |             |             |             |             |             |              |
| 1,500  | 152 |             |             |             |             |             |             |              |
| 2,200  | 222 |             |             |             |             |             |             |              |
| 3,300  | 332 |             |             |             |             |             |             |              |
| 4,700  | 472 |             |             |             |             |             |             |              |
| 6,800  | 682 |             |             |             |             |             |             |              |
| 10,000 | 103 |             |             |             |             |             |             |              |

标准厚度  0.30mm

■关于产品厚度，静电容量公差等详细信息，请参照 P-12 以后的静电容量范围表。

电容范围图

CGA2/1005 [0402 inch]

| 电容      |     | COG | X5R      |          |          |          |          | X7R      |          |          |          |          | X7S      |           |          |
|---------|-----|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|
| (pF)    | 代码  |     | 1H (50V) | 1H (50V) | 1V (35V) | 1E (25V) | 1C (16V) | 1A (10V) | 1H (50V) | 1V (35V) | 1E (25V) | 1C (16V) | 1A (10V) | 0J (6.3V) | 1C (16V) |
| 1       | 010 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 1.5     | 1R5 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 2       | 020 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 2.2     | 2R2 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 3       | 030 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 3.3     | 3R3 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 4       | 040 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 4.7     | 4R7 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 5       | 050 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 6       | 060 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 6.8     | 6R8 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 7       | 070 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 8       | 080 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 9       | 090 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 10      | 100 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 12      | 120 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 15      | 150 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 18      | 180 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 22      | 220 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 27      | 270 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 33      | 330 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 39      | 390 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 47      | 470 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 56      | 560 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 68      | 680 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 82      | 820 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 100     | 101 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 120     | 121 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 150     | 151 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 180     | 181 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 220     | 221 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 270     | 271 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 330     | 331 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 390     | 391 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 470     | 471 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 560     | 561 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 680     | 681 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 820     | 821 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 1,000   | 102 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 1,500   | 152 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 2,200   | 222 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 3,300   | 332 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 4,700   | 472 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 6,800   | 682 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 10,000  | 103 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 15,000  | 153 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 22,000  | 223 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 33,000  | 333 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 47,000  | 473 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 68,000  | 683 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 100,000 | 104 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 150,000 | 154 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 220,000 | 224 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 330,000 | 334 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |
| 470,000 | 474 |     |          |          |          |          |          |          |          |          |          |          |          |           |          |

标准厚度 0.50mm

灰色涂层的品名, 为新设计非推荐品。

关于产品厚度, 静电容量公差等详细信息, 请参照 P-12 以后的静电容量范围表。


为了能够更加正确、安全地使用产品, 请务必索取能进一步确认详细特性、规格的采购规格书。记载内容可能因为产品改良等原因不经预告而更改, 恕不另行通知。

## 电容范围图

## CGA3/1608 [0603 inch]

| 电容     |     | COG         | X5R         | X7R         |
|--------|-----|-------------|-------------|-------------|
| (pF)   | 代码  | 1H<br>(50V) | 1H<br>(50V) | 1H<br>(50V) |
| 1      | 010 |             |             |             |
| 1.5    | 1R5 |             |             |             |
| 2      | 020 |             |             |             |
| 2.2    | 2R2 |             |             |             |
| 3      | 030 |             |             |             |
| 3.3    | 3R3 |             |             |             |
| 4      | 040 |             |             |             |
| 4.7    | 4R7 |             |             |             |
| 5      | 050 |             |             |             |
| 6      | 060 |             |             |             |
| 6.8    | 6R8 |             |             |             |
| 7      | 070 |             |             |             |
| 8      | 080 |             |             |             |
| 9      | 090 |             |             |             |
| 10     | 100 |             |             |             |
| 12     | 120 |             |             |             |
| 15     | 150 |             |             |             |
| 18     | 180 |             |             |             |
| 22     | 220 |             |             |             |
| 27     | 270 |             |             |             |
| 33     | 330 |             |             |             |
| 39     | 390 |             |             |             |
| 47     | 470 |             |             |             |
| 56     | 560 |             |             |             |
| 68     | 680 |             |             |             |
| 82     | 820 |             |             |             |
| 100    | 101 |             |             |             |
| 120    | 121 |             |             |             |
| 150    | 151 |             |             |             |
| 180    | 181 |             |             |             |
| 220    | 221 |             |             |             |
| 270    | 271 |             |             |             |
| 330    | 331 |             |             |             |
| 390    | 391 |             |             |             |
| 470    | 471 |             |             |             |
| 560    | 561 |             |             |             |
| 680    | 681 |             |             |             |
| 820    | 821 |             |             |             |
| 1,000  | 102 |             |             |             |
| 1,200  | 122 |             |             |             |
| 1,500  | 152 |             |             |             |
| 1,800  | 182 |             |             |             |
| 2,200  | 222 |             |             |             |
| 2,700  | 272 |             |             |             |
| 3,300  | 332 |             |             |             |
| 3,900  | 392 |             |             |             |
| 4,700  | 472 |             |             |             |
| 5,600  | 562 |             |             |             |
| 6,800  | 682 |             |             |             |
| 8,200  | 822 |             |             |             |
| 10,000 | 103 |             |             |             |
| 15,000 | 153 |             |             |             |
| 22,000 | 223 |             |             |             |
| 33,000 | 333 |             |             |             |
| 47,000 | 473 |             |             |             |
| 68,000 | 683 |             |             |             |

标准厚度  0.80mm

 灰色涂层的品名, 为新规设计非推荐品。

■关于产品厚度, 静电容量公差等详细信息, 请参照P-12以后的静电容量范围表。

⚠ 为了能够更加正确、安全地使用产品, 请务必索取能进一步确认详细特性、规格的采购规格书。  
记载内容可能因为产品改良等原因不经预告而更改, 恕不另行通知。

## 电容范围图

## CGA3/1608 [0603 inch]

| 电容         |     | X5R         |             |             |             |             |              | X7R         |             |             |             |              | X7S         |             |            |  |
|------------|-----|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|------------|--|
| (pF)       | 代码  | 1H<br>(50V) | 1V<br>(35V) | 1E<br>(25V) | 1C<br>(16V) | 1A<br>(10V) | 0J<br>(6.3V) | 1H<br>(50V) | 1V<br>(35V) | 1E<br>(25V) | 1C<br>(16V) | 0J<br>(6.3V) | 1C<br>(16V) | 1A<br>(10V) | 0G<br>(4V) |  |
| 100,000    | 104 | ■           |             |             |             |             |              | ■           |             |             |             |              |             |             |            |  |
| 150,000    | 154 | ■           | ■           |             |             |             |              | ■           | ■           | ■           |             |              |             |             |            |  |
| 220,000    | 224 |             |             | ■           |             |             |              |             |             |             | ■           |              |             |             |            |  |
| 330,000    | 334 |             |             |             | ■           | ■           |              |             |             |             |             |              |             |             |            |  |
| 470,000    | 474 |             |             |             |             | ■           |              |             |             |             |             |              |             |             |            |  |
| 680,000    | 684 |             |             |             |             |             |              | ■           | ■           | ■           |             |              |             |             |            |  |
| 1,000,000  | 105 |             |             |             |             |             |              |             |             |             |             |              |             |             |            |  |
| 1,500,000  | 155 |             |             |             |             |             |              |             |             |             |             | ■            | ■           | ■           |            |  |
| 2,200,000  | 225 |             |             |             |             |             |              |             |             |             |             |              |             |             |            |  |
| 3,300,000  | 335 |             |             |             |             |             |              |             |             |             |             |              |             |             |            |  |
| 4,700,000  | 475 |             |             |             |             |             |              |             |             |             |             |              |             |             |            |  |
| 10,000,000 | 106 |             |             |             |             |             |              |             |             |             |             |              |             |             | ■          |  |

标准厚度 ■ 0.80mm

■ 灰色涂层的品名，为新规设计非推荐品。

■ 关于产品厚度，静电容量公差等详细信息，请参照P-12以后的静电容量范围表。



## 电容范围图

## CGA4/2012 [0805 inch]

| 电容         |     | COG         | X5R         |             |             |             |             | X7R         |             |             |             |             | X7S          |             |             |             |
|------------|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| (pF)       | 代码  | 1H<br>(50V) | 1H<br>(50V) | 1V<br>(35V) | 1E<br>(25V) | 1C<br>(16V) | 1A<br>(10V) | 1H<br>(50V) | 1V<br>(35V) | 1E<br>(25V) | 1C<br>(16V) | 1A<br>(10V) | 0J<br>(6.3V) | 1E<br>(25V) | 1C<br>(16V) | 1A<br>(10V) |
| 1,000      | 102 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 1,200      | 122 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 1,500      | 152 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 1,800      | 182 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 2,200      | 222 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 2,700      | 272 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 3,300      | 332 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 3,900      | 392 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 4,700      | 472 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 5,600      | 562 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 6,800      | 682 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 8,200      | 822 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 10,000     | 103 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 15,000     | 153 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 22,000     | 223 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 33,000     | 333 | ■           |             |             |             |             |             |             |             |             |             |             |              |             |             |             |
| 100,000    | 104 |             | ■           |             |             |             |             | ■           |             |             |             |             |              |             |             |             |
| 150,000    | 154 |             | ■           |             |             |             |             | ■           |             |             |             |             |              |             |             |             |
| 220,000    | 224 |             | ■           |             |             |             |             | ■           |             |             |             |             |              |             |             |             |
| 330,000    | 334 |             | ■           | ■           |             |             |             | ■           | ■           |             |             |             |              |             |             |             |
| 470,000    | 474 |             | ■           | ■           | ■           |             |             | ■           | ■           | ■           |             |             |              |             |             |             |
| 680,000    | 684 |             | ■           | ■           | ■           | ■           |             | ■           | ■           | ■           |             |             |              |             |             |             |
| 1,000,000  | 105 |             | ■           | ■           | ■           | ■           |             | ■           | ■           | ■           |             |             |              |             |             |             |
| 1,500,000  | 155 |             | ■           | ■           | ■           | ■           |             | ■           | ■           | ■           |             |             |              |             |             |             |
| 2,200,000  | 225 |             | ■           | ■           | ■           | ■           |             | ■           | ■           | ■           |             |             |              |             |             |             |
| 3,300,000  | 335 |             | ■           | ■           | ■           | ■           |             | ■           | ■           | ■           |             |             |              |             |             |             |
| 4,700,000  | 475 |             | ■           | ■           | ■           | ■           |             | ■           | ■           | ■           |             |             |              |             |             |             |
| 6,800,000  | 685 |             | ■           | ■           | ■           | ■           |             | ■           | ■           | ■           |             | ■           |              | ■           |             | ■           |
| 10,000,000 | 106 |             | ■           | ■           | ■           | ■           |             | ■           | ■           | ■           |             | ■           |              | ■           |             | ■           |

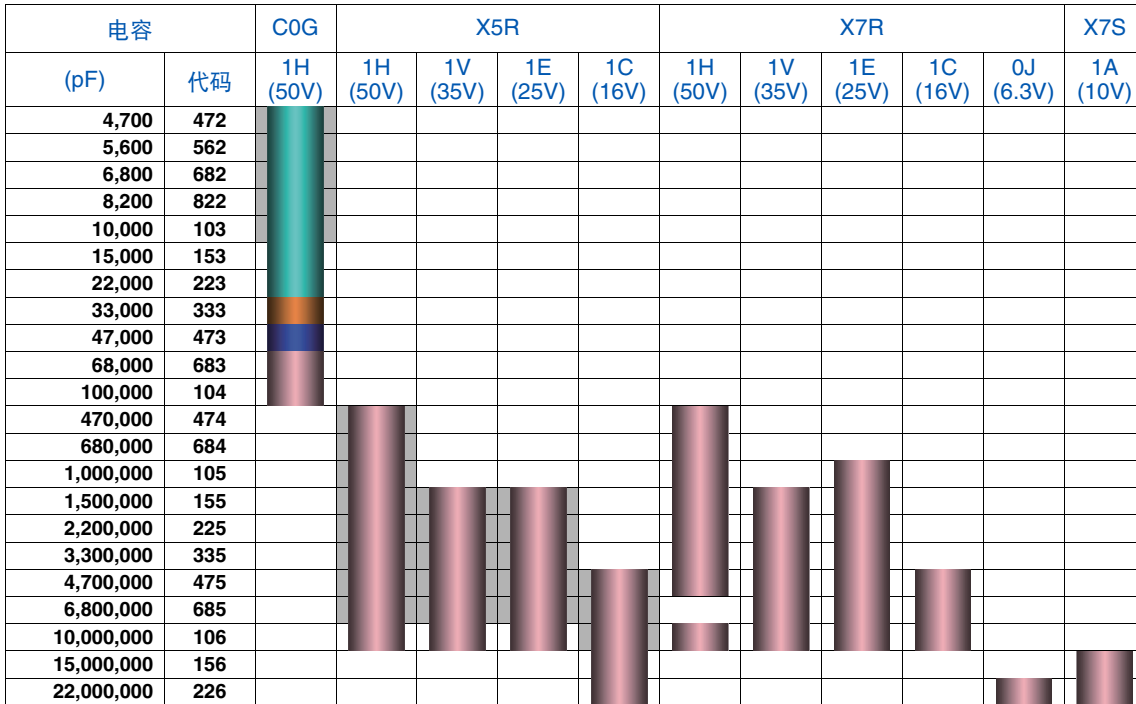
标准厚度 ■ 0.60 mm ■ 0.85 mm ■ 1.25 mm

■ 灰色涂层的品名，为新规设计非推荐品。

■ 关于产品厚度，静电容量公差等详细信息，请参照P-12以后的静电容量范围表。

电容范围图

CGA5/3216 [1206 inch]



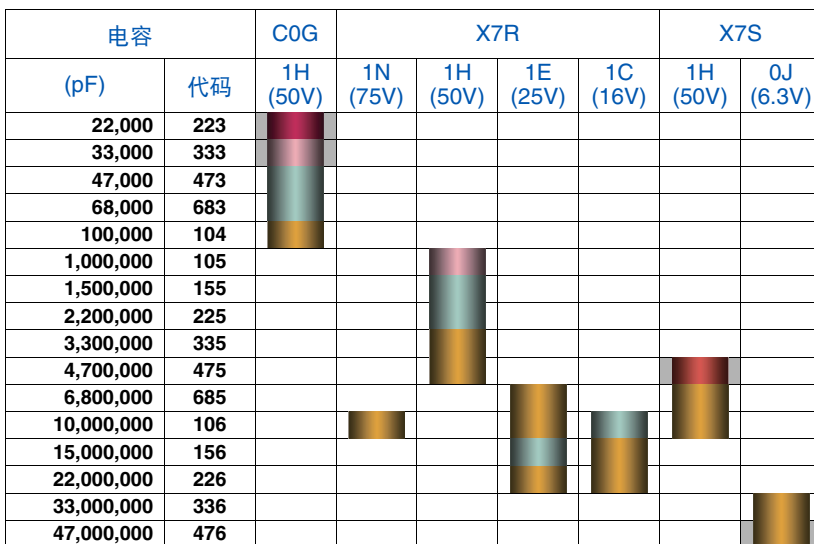
标准厚度 ■ 0.60 mm ■ 0.85 mm ■ 1.15 mm ■ 1.60 mm

■ 灰色涂层的品名, 为新规设计非推荐品。

■ 关于产品厚度, 静电容量公差等详细信息, 请参照P-12以后的静电容量范围表。

电容范围图

CGA6/3225 [1210 inch]



标准厚度 ■ 1.25 mm ■ 1.60 mm ■ 2.00 mm ■ 2.30 mm ■ 2.50 mm

■ 灰色涂层的品名, 为新规设计非推荐品。







■ 关于产品厚度, 静电容量公差等详细信息, 请参照P-12以后的静电容量范围表。

▲ 为了能够更加正确、安全地使用产品, 请务必索取能进一步确认详细特性、规格的采购规格书。记载内容可能因为产品改良等原因不经预告而更改, 恕不另行通知。

## 电容范围图

## CGA8/4532 [1812 inch]

| 电容         |     | COG         |             | X7R         |             |  |
|------------|-----|-------------|-------------|-------------|-------------|--|
| (pF)       | 代码  | 1H<br>(50V) | 1H<br>(50V) | 1E<br>(25V) | 1C<br>(16V) |  |
| 47,000     | 473 |             |             |             |             |  |
| 68,000     | 683 |             |             |             |             |  |
| 100,000    | 104 |             |             |             |             |  |
| 150,000    | 154 |             |             |             |             |  |
| 220,000    | 224 |             |             |             |             |  |
| 1,500,000  | 155 |             |             |             |             |  |
| 2,200,000  | 225 |             |             |             |             |  |
| 3,300,000  | 335 |             |             |             |             |  |
| 4,700,000  | 475 |             |             |             |             |  |
| 6,800,000  | 685 |             |             |             |             |  |
| 10,000,000 | 106 |             |             |             |             |  |
| 15,000,000 | 156 |             |             |             |             |  |
| 22,000,000 | 226 |             |             |             |             |  |
| 33,000,000 | 336 |             |             |             |             |  |

标准厚度  1.60 mm  2.00 mm  2.30 mm  2.50 mm  2.80 mm  3.20 mm

 灰色涂层的品名，为新规设计非推荐品。

■关于产品厚度，静电容量公差等详细信息，请参照P-12以后的静电容量范围表。

## 电容范围图

## CGA9/5750 [2220 inch]

| 电容         |     | X7R         |             |             |
|------------|-----|-------------|-------------|-------------|
| (pF)       | 代码  | 1H<br>(50V) | 1E<br>(25V) | 1C<br>(16V) |
| 4,700,000  | 475 |             |             |             |
| 6,800,000  | 685 |             |             |             |
| 10,000,000 | 106 |             |             |             |
| 15,000,000 | 156 |             |             |             |
| 22,000,000 | 226 |             |             |             |
| 47,000,000 | 476 |             |             |             |

标准厚度  2.00 mm  2.30 mm  2.50 mm

 灰色涂层的品名，为新规设计非推荐品。

■关于产品厚度，静电容量公差等详细信息，请参照P-12以后的静电容量范围表。

## 电容范围表

温度特性: C0G (-55 to +125°C、0±30ppm/°C)

| 电容    | 尺寸   | 厚度<br>(mm) | 电容容差    | 目录型号                       |                            |
|-------|------|------------|---------|----------------------------|----------------------------|
|       |      |            |         | 额定电压 E <sub>dc</sub> : 50V | 额定电压 E <sub>dc</sub> : 25V |
| 1pF   | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H010C030BA       | CGA1A2C0G1E010C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H010C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H010C080AA       |                            |
| 1.5pF | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H1R5C030BA       | CGA1A2C0G1E1R5C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H1R5C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H1R5C080AA       |                            |
| 2pF   | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H020C030BA       | CGA1A2C0G1E020C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H020C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H020C080AA       |                            |
| 2.2pF | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H2R2C030BA       | CGA1A2C0G1E2R2C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H2R2C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H2R2C080AA       |                            |
| 3pF   | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H030C030BA       | CGA1A2C0G1E030C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H030C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H030C080AA       |                            |
| 3.3pF | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H3R3C030BA       | CGA1A2C0G1E3R3C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H3R3C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H3R3C080AA       |                            |
| 4pF   | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H040C030BA       | CGA1A2C0G1E040C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H040C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H040C080AA       |                            |
| 4.7pF | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H4R7C030BA       | CGA1A2C0G1E4R7C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H4R7C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H4R7C080AA       |                            |
| 5pF   | 0603 | 0.30±0.03  | ±0.25pF | CGA1A2C0G1H050C030BA       | CGA1A2C0G1E050C030BA       |
|       | 1005 | 0.50±0.05  | ±0.25pF | CGA2B2C0G1H050C050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.25pF | CGA3E2C0G1H050C080AA       |                            |
| 6pF   | 0603 | 0.30±0.03  | ±0.50pF | CGA1A2C0G1H060D030BA       | CGA1A2C0G1E060D030BA       |
|       | 1005 | 0.50±0.05  | ±0.50pF | CGA2B2C0G1H060D050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.50pF | CGA3E2C0G1H060D080AA       |                            |
| 6.8pF | 0603 | 0.30±0.03  | ±0.50pF | CGA1A2C0G1H6R8D030BA       | CGA1A2C0G1E6R8D030BA       |
|       | 1005 | 0.50±0.05  | ±0.50pF | CGA2B2C0G1H6R8D050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.50pF | CGA3E2C0G1H6R8D080AA       |                            |
| 7pF   | 0603 | 0.30±0.03  | ±0.50pF | CGA1A2C0G1H070D030BA       | CGA1A2C0G1E070D030BA       |
|       | 1005 | 0.50±0.05  | ±0.50pF | CGA2B2C0G1H070D050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.50pF | CGA3E2C0G1H070D080AA       |                            |
| 8pF   | 0603 | 0.30±0.03  | ±0.50pF | CGA1A2C0G1H080D030BA       | CGA1A2C0G1E080D030BA       |
|       | 1005 | 0.50±0.05  | ±0.50pF | CGA2B2C0G1H080D050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.50pF | CGA3E2C0G1H080D080AA       |                            |
| 9pF   | 0603 | 0.30±0.03  | ±0.50pF | CGA1A2C0G1H090D030BA       | CGA1A2C0G1E090D030BA       |
|       | 1005 | 0.50±0.05  | ±0.50pF | CGA2B2C0G1H090D050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.50pF | CGA3E2C0G1H090D080AA       |                            |
| 10pF  | 0603 | 0.30±0.03  | ±0.50pF | CGA1A2C0G1H100D030BA       | CGA1A2C0G1E100D030BA       |
|       | 1005 | 0.50±0.05  | ±0.50pF | CGA2B2C0G1H100D050BA       |                            |
|       | 1608 | 0.80±0.10  | ±0.50pF | CGA3E2C0G1H100D080AA       |                            |
| 12pF  | 0603 | 0.30±0.03  | ±5%     | CGA1A2C0G1H120J030BA       | CGA1A2C0G1E120J030BA       |
|       | 1005 | 0.50±0.05  | ±5%     | CGA2B2C0G1H120J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%     | CGA3E2C0G1H120J080AA       |                            |
| 15pF  | 0603 | 0.30±0.03  | ±5%     | CGA1A2C0G1H150J030BA       | CGA1A2C0G1E150J030BA       |
|       | 1005 | 0.50±0.05  | ±5%     | CGA2B2C0G1H150J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%     | CGA3E2C0G1H150J080AA       |                            |
| 18pF  | 0603 | 0.30±0.03  | ±5%     | CGA1A2C0G1H180J030BA       | CGA1A2C0G1E180J030BA       |
|       | 1005 | 0.50±0.05  | ±5%     | CGA2B2C0G1H180J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%     | CGA3E2C0G1H180J080AA       |                            |
| 22pF  | 0603 | 0.30±0.03  | ±5%     | CGA1A2C0G1H220J030BA       | CGA1A2C0G1E220J030BA       |
|       | 1005 | 0.50±0.05  | ±5%     | CGA2B2C0G1H220J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%     | CGA3E2C0G1H220J080AA       |                            |
| 27pF  | 0603 | 0.30±0.03  | ±5%     | CGA1A2C0G1H270J030BA       | CGA1A2C0G1E270J030BA       |
|       | 1005 | 0.50±0.05  | ±5%     | CGA2B2C0G1H270J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%     | CGA3E2C0G1H270J080AA       |                            |
| 33pF  | 0603 | 0.30±0.03  | ±5%     | CGA1A2C0G1H330J030BA       | CGA1A2C0G1E330J030BA       |
|       | 1005 | 0.50±0.05  | ±5%     | CGA2B2C0G1H330J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%     | CGA3E2C0G1H330J080AA       |                            |
| 39pF  | 0603 | 0.30±0.03  | ±5%     | CGA1A2C0G1H390J030BA       | CGA1A2C0G1E390J030BA       |
|       | 1005 | 0.50±0.05  | ±5%     | CGA2B2C0G1H390J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%     | CGA3E2C0G1H390J080AA       |                            |
| 47pF  | 0603 | 0.30±0.03  | ±5%     | CGA1A2C0G1H470J030BA       | CGA1A2C0G1E470J030BA       |
|       | 1005 | 0.50±0.05  | ±5%     | CGA2B2C0G1H470J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%     | CGA3E2C0G1H470J080AA       |                            |

⚠ 为了能够更加正确、安全地使用产品，请务必索取能进一步确认详细特性、规格的采购规格书。  
 记载内容可能因为产品改良等原因不经预告而更改，恕不另行通知。

## 电容范围表

温度特性: C0G (-55 to +125°C、0±30ppm/°C)

| 电容    | 尺寸   | 厚度<br>(mm) | 电容容差 | 目录型号                       |                            |
|-------|------|------------|------|----------------------------|----------------------------|
|       |      |            |      | 额定电压 E <sub>dc</sub> : 50V | 额定电压 E <sub>dc</sub> : 25V |
| 56pF  | 0603 | 0.30±0.03  | ±5%  | CGA1A2C0G1H560J030BA       | CGA1A2C0G1E560J030BA       |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H560J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H560J080AA       |                            |
| 68pF  | 0603 | 0.30±0.03  | ±5%  | CGA1A2C0G1H680J030BA       | CGA1A2C0G1E680J030BA       |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H680J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H680J080AA       |                            |
| 82pF  | 0603 | 0.30±0.03  | ±5%  | CGA1A2C0G1H820J030BA       | CGA1A2C0G1E820J030BA       |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H820J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H820J080AA       |                            |
| 100pF | 0603 | 0.30±0.03  | ±5%  | CGA1A2C0G1H101J030BA       | CGA1A2C0G1E101J030BA       |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H101J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H101J080AA       |                            |
| 120pF | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H121J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H121J080AA       |                            |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H151J050BA       |                            |
| 150pF | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H151J080AA       |                            |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H181J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H181J080AA       |                            |
| 220pF | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H221J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H221J080AA       |                            |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H271J050BA       |                            |
| 270pF | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H271J080AA       |                            |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H331J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H331J080AA       |                            |
| 330pF | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H391J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H391J080AA       |                            |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H471J050BA       |                            |
| 470pF | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H471J080AA       |                            |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H561J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H561J080AA       |                            |
| 560pF | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H681J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H681J080AA       |                            |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H821J050BA       |                            |
| 680pF | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H821J080AA       |                            |
|       | 1005 | 0.50±0.05  | ±5%  | CGA2B2C0G1H102J050BA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H102J080AA       |                            |
| 1nF   | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H1122J060AA      |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H122J080AA       |                            |
|       | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H152J060AA       |                            |
| 1.2nF | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H182J080AA       |                            |
|       | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H182J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H222J080AA       |                            |
| 1.5nF | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H222J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H272J080AA       |                            |
|       | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H272J060AA       |                            |
| 1.8nF | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H332J080AA       |                            |
|       | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H332J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H392J080AA       |                            |
| 2.2nF | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H392J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H472J080AA       |                            |
|       | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H472J060AA       |                            |
| 2.7nF | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H562J080AA       |                            |
|       | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H562J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H682J080AA       |                            |
| 3.3nF | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H682J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H822J080AA       |                            |
|       | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H822J060AA       |                            |
| 3.9nF | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H103J080AA       |                            |
|       | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H103J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H103J080AA       |                            |
| 4.7nF | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H153J060AA       |                            |
|       | 3216 | 0.60±0.15  | ±5%  | CGA5C2C0G1H153J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H223J080AA       |                            |
| 5.6nF | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H223J060AA       |                            |
|       | 3216 | 0.60±0.15  | ±5%  | CGA5C2C0G1H223J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H223J080AA       |                            |
| 6.8nF | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H223J060AA       |                            |
|       | 3216 | 0.60±0.15  | ±5%  | CGA5C2C0G1H223J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H223J080AA       |                            |
| 8.2nF | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H223J060AA       |                            |
|       | 3216 | 0.60±0.15  | ±5%  | CGA5C2C0G1H223J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H223J080AA       |                            |
| 10nF  | 2012 | 0.60±0.15  | ±5%  | CGA4C2C0G1H223J060AA       |                            |
|       | 3216 | 0.60±0.15  | ±5%  | CGA5C2C0G1H223J060AA       |                            |
|       | 1608 | 0.80±0.10  | ±5%  | CGA3E2C0G1H223J080AA       |                            |
| 15nF  | 2012 | 0.85±0.15  | ±5%  | CGA4F2C0G1H153J085AA       |                            |
|       | 3216 | 0.60±0.15  | ±5%  | CGA5C2C0G1H153J060AA       |                            |
|       | 2012 | 1.25±0.20  | ±5%  | CGA4J2C0G1H223J125AA       |                            |
| 22nF  | 3216 | 0.60±0.15  | ±5%  | CGA5C2C0G1H223J060AA       |                            |
|       | 3225 | 1.25±0.20  | ±5%  | CGA6J2C0G1H223J125AA       |                            |

■灰色涂层的品名, 为新设计非推荐品。

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 记载内容可能因为产品改良等原因不经预告而更改, 恕不另行通知。

## 电容范围表

温度特性:COG (-55 to +125°C、0±30ppm/°C)

| 电容    | 尺寸   | 厚度<br>(mm) | 电容容差 | 目录型号                                 |
|-------|------|------------|------|--------------------------------------|
|       |      |            |      | 额定电压 E <sub>dc</sub> : 50V           |
| 33nF  | 2012 | 1.25±0.20  | ±5%  | <a href="#">CGA4J2C0G1H333J125AA</a> |
|       | 3216 | 0.85±0.15  | ±5%  | <a href="#">CGA5F2C0G1H333J085AA</a> |
|       | 3225 | 1.60±0.20  | ±5%  | <a href="#">CGA6L2C0G1H333J160AA</a> |
| 47nF  | 3216 | 1.15±0.15  | ±5%  | <a href="#">CGA5H2C0G1H473J115AA</a> |
|       | 3225 | 2.00±0.20  | ±5%  | <a href="#">CGA6M2C0G1H473J200AA</a> |
|       | 4532 | 1.60±0.20  | ±5%  | <a href="#">CGA8L2C0G1H473J160KA</a> |
| 68nF  | 3216 | 1.60±0.20  | ±5%  | <a href="#">CGA5L2C0G1H683J160AA</a> |
|       | 3225 | 2.00±0.20  | ±5%  | <a href="#">CGA6M2C0G1H683J200AA</a> |
|       | 4532 | 1.60±0.20  | ±5%  | <a href="#">CGA8L2C0G1H683J160KA</a> |
| 100nF | 3216 | 1.60±0.20  | ±5%  | <a href="#">CGA5L2C0G1H104J160AA</a> |
|       | 3225 | 2.50±0.30  | ±5%  | <a href="#">CGA6P2C0G1H104J250AA</a> |
|       | 4532 | 2.00±0.20  | ±5%  | <a href="#">CGA8M2C0G1H104J200KA</a> |
| 150nF | 4532 | 2.50±0.30  | ±5%  | <a href="#">CGA8P2C0G1H154J250KA</a> |
| 220nF | 4532 | 3.20±0.30  | ±5%  | <a href="#">CGA8R2C0G1H224J320KA</a> |

■灰色涂层的品名，为新设计非推荐品。

## 电容范围表

温度特性: X5R (-55 to +85°C、±15%)

| 电容    | 尺寸   | 厚度<br>(mm) | 电容容差 | 目录型号                 |                      |                      |
|-------|------|------------|------|----------------------|----------------------|----------------------|
|       |      |            |      | 额定电压 Edc: 50V        | 额定电压 Edc: 35V        | 额定电压 Edc: 25V        |
| 220pF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H221K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H221M050BA |                      |                      |
| 330pF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H331K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H331M050BA |                      |                      |
| 470pF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H471K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H471M050BA |                      |                      |
| 680pF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H681K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H681M050BA |                      |                      |
| 1nF   | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H102K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H102M050BA |                      |                      |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H102K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H102M080AA |                      |                      |
| 1.5nF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H152K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H152M050BA |                      |                      |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H152K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H152M080AA |                      |                      |
| 2.2nF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H222K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H222M050BA |                      |                      |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H222K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H222M080AA |                      |                      |
| 3.3nF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H332K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H332M050BA |                      |                      |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H332K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H332M080AA |                      |                      |
| 4.7nF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H472K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H472M050BA |                      |                      |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H472K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H472M080AA |                      |                      |
| 6.8nF | 1005 | 0.50±0.05  | ±10% | CGA2B2X5R1H682K050BA |                      |                      |
|       |      |            | ±20% | CGA2B2X5R1H682M050BA |                      |                      |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H682K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H682M080AA |                      |                      |
| 10nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X5R1H103K050BB | CGA2B3X5R1V103K050BB | CGA2B2X5R1E103K050BA |
|       |      |            | ±20% | CGA2B3X5R1H103M050BB | CGA2B3X5R1V103M050BB | CGA2B2X5R1E103M050BA |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H103K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H103M080AA |                      |                      |
| 15nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X5R1H153K050BB | CGA2B3X5R1V153K050BB | CGA2B2X5R1E153K050BA |
|       |      |            | ±20% | CGA2B3X5R1H153M050BB | CGA2B3X5R1V153M050BB | CGA2B2X5R1E153M050BA |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H153K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H153M080AA |                      |                      |
| 22nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X5R1H223K050BB | CGA2B3X5R1V223K050BB | CGA2B2X5R1E223K050BA |
|       |      |            | ±20% | CGA2B3X5R1H223M050BB | CGA2B3X5R1V223M050BB | CGA2B2X5R1E223M050BA |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H223K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H223M080AA |                      |                      |
| 33nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X5R1H333K050BB | CGA2B3X5R1V333K050BB | CGA2B2X5R1E333K050BA |
|       |      |            | ±20% | CGA2B3X5R1H333M050BB | CGA2B3X5R1V333M050BB | CGA2B2X5R1E333M050BA |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H333K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H333M080AA |                      |                      |
| 47nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X5R1H473K050BB | CGA2B3X5R1V473K050BB | CGA2B2X5R1E473K050BA |
|       |      |            | ±20% | CGA2B3X5R1H473M050BB | CGA2B3X5R1V473M050BB | CGA2B2X5R1E473M050BA |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H473K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H473M080AA |                      |                      |
| 68nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X5R1H683K050BB | CGA2B3X5R1V683K050BB | CGA2B3X5R1E683K050BB |
|       |      |            | ±20% | CGA2B3X5R1H683M050BB | CGA2B3X5R1V683M050BB | CGA2B3X5R1E683M050BB |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H683K080AA |                      |                      |
|       |      |            | ±20% | CGA3E2X5R1H683M080AA |                      |                      |
| 100nF | 1005 | 0.50±0.05  | ±10% | CGA2B3X5R1H104K050BB | CGA2B3X5R1V104K050BB | CGA2B3X5R1E104K050BB |
|       |      |            | ±20% | CGA2B3X5R1H104M050BB | CGA2B3X5R1V104M050BB | CGA2B3X5R1E104M050BB |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X5R1H104K080AA |                      | CGA3E2X5R1E104K080AA |
|       |      |            | ±20% | CGA3E2X5R1H104M080AA |                      | CGA3E2X5R1E104M080AA |
| 150nF | 1608 | 0.80±0.10  | ±10% | CGA3E3X5R1H154K080AB | CGA3E3X5R1V154K080AB | CGA3E2X5R1E154K080AA |
|       |      |            | ±20% | CGA3E3X5R1H154M080AB | CGA3E3X5R1V154M080AB | CGA3E2X5R1E154M080AA |
|       | 2012 | 1.25±0.20  | ±10% | CGA4J2X5R1H154K125AA |                      |                      |
|       |      |            | ±20% | CGA4J2X5R1H154M125AA |                      |                      |

■ 灰色涂层的品名，为新规设计非推荐品。

⚠ 为了能够更加正确、安全地使用产品，请务必索取能进一步确认详细特性、规格的采购规格书。  
 记载内容可能因为产品改良等原因不经预告而更改，恕不另行通知。

# MULTILAYER CERAMIC CHIP CAPACITORS TDK

## 电容范围表

温度特性: X5R (-55 to +85°C、±15%)

| 电容    | 尺寸              | 厚度 (mm)         | 电容容差                 | 目录型号                 |                      |                      |
|-------|-----------------|-----------------|----------------------|----------------------|----------------------|----------------------|
|       |                 |                 |                      | 额定电压 Edc: 50V        |                      |                      |
|       |                 |                 |                      | 额定电压 Edc: 50V        | 额定电压 Edc: 35V        | 额定电压 Edc: 25V        |
| 220nF | 1608            | 0.80±0.10       | ±10%                 | CGA3E3X5R1H224K080AB | CGA3E3X5R1V224K080AB | CGA3E2X5R1E224K080AA |
|       |                 |                 | ±20%                 | CGA3E3X5R1H224M080AB | CGA3E3X5R1V224M080AB | CGA3E2X5R1E224M080AA |
|       | 2012            | 1.25±0.20       | ±10%                 | CGA4J2X5R1H224K125AA |                      |                      |
|       |                 |                 | ±20%                 | CGA4J2X5R1H224M125AA |                      |                      |
| 330nF | 1608            | 0.80±0.10       | ±10%                 | CGA3E3X5R1H334K080AB | CGA3E3X5R1V334K080AB | CGA3E3X5R1E334K080AB |
|       |                 |                 | ±20%                 | CGA3E3X5R1H334M080AB | CGA3E3X5R1V334M080AB | CGA3E3X5R1E334M080AB |
|       | 2012            | 1.25±0.20       | ±10%                 | CGA4J2X5R1H334K125AA |                      |                      |
|       |                 |                 | ±20%                 | CGA4J2X5R1H334M125AA |                      |                      |
| 470nF | 1608            | 0.80±0.10       | ±10%                 | CGA3E3X5R1H474K080AB | CGA3E3X5R1V474K080AB | CGA3E3X5R1E474K080AB |
|       |                 |                 | ±20%                 | CGA3E3X5R1H474M080AB | CGA3E3X5R1V474M080AB | CGA3E3X5R1E474M080AB |
|       | 2012            | 1.25±0.20       | ±10%                 | CGA4J3X5R1H474K125AB | CGA4J3X5R1V474K125AB | CGA4J2X5R1E474K125AA |
|       |                 |                 | ±20%                 | CGA4J3X5R1H474M125AB | CGA4J3X5R1V474M125AB | CGA4J2X5R1E474M125AA |
| 680nF | 3216            | 1.60+0.30,-0.10 | ±10%                 | CGA5L2X5R1H474K160AA |                      |                      |
|       |                 |                 | ±20%                 | CGA5L2X5R1H474M160AA |                      |                      |
|       | 1608            | 0.80±0.10       | ±10%                 | CGA3E3X5R1H684K080AB | CGA3E3X5R1V684K080AB | CGA3E3X5R1E684K080AB |
|       |                 |                 | ±20%                 | CGA3E3X5R1H684M080AB | CGA3E3X5R1V684M080AB | CGA3E3X5R1E684M080AB |
| 2012  | 1.25±0.20       | ±10%            | CGA4J3X5R1H684K125AB | CGA4J3X5R1V684K125AB | CGA4J2X5R1E684K125AA |                      |
|       |                 | ±20%            | CGA4J3X5R1H684M125AB | CGA4J3X5R1V684M125AB | CGA4J2X5R1E684M125AA |                      |
| 1µF   | 3216            | 1.60+0.30,-0.10 | ±10%                 | CGA5L2X5R1H684M160AA |                      |                      |
|       |                 |                 | ±20%                 | CGA5L2X5R1H684M160AA |                      |                      |
|       | 1608            | 0.80±0.10       | ±10%                 | CGA3E3X5R1H105K080AB | CGA3E3X5R1V105K080AB | CGA3E3X5R1E105K080AB |
|       |                 |                 | ±20%                 | CGA3E3X5R1H105M080AB | CGA3E3X5R1V105M080AB | CGA3E3X5R1E105M080AB |
| 2012  | 1.25±0.20       | ±10%            | CGA4J3X5R1H105K125AB | CGA4J3X5R1V105K125AB | CGA4J2X5R1E105K125AA |                      |
|       |                 | ±20%            | CGA4J3X5R1H105M125AB | CGA4J3X5R1V105M125AB | CGA4J2X5R1E105M125AA |                      |
| 1.5µF | 3216            | 1.60+0.30,-0.10 | ±10%                 | CGA5L2X5R1H105K160AA |                      |                      |
|       |                 |                 | ±20%                 | CGA5L2X5R1H105M160AA |                      |                      |
|       | 2012            | 1.25±0.20       | ±10%                 | CGA4J3X5R1H155K125AB | CGA4J3X5R1V155K125AB | CGA4J3X5R1E155K125AB |
|       |                 |                 | ±20%                 | CGA4J3X5R1H155M125AB | CGA4J3X5R1V155M125AB | CGA4J3X5R1E155M125AB |
| 3216  | 1.60+0.30,-0.10 | ±10%            | CGA5L3X5R1H155K160AB | CGA5L3X5R1V155K160AB | CGA5L2X5R1E155K160AA |                      |
|       |                 | ±20%            | CGA5L3X5R1H155M160AB | CGA5L3X5R1V155M160AB | CGA5L2X5R1E155M160AA |                      |
| 2.2µF | 2012            | 1.25±0.20       | ±10%                 | CGA4J3X5R1H225K125AB | CGA4J3X5R1V225K125AB | CGA4J3X5R1E225K125AB |
|       |                 |                 | ±20%                 | CGA4J3X5R1H225M125AB | CGA4J3X5R1V225M125AB | CGA4J3X5R1E225M125AB |
|       | 3216            | 1.60+0.30,-0.10 | ±10%                 | CGA5L3X5R1H225K160AB | CGA5L3X5R1V225K160AB | CGA5L2X5R1E225K160AA |
|       |                 |                 | ±20%                 | CGA5L3X5R1H225M160AB | CGA5L3X5R1V225M160AB | CGA5L2X5R1E225M160AA |
| 3.3µF | 2012            | 1.25±0.20       | ±10%                 | CGA4J3X5R1H335K125AB | CGA4J3X5R1V335K125AB | CGA4J3X5R1E335K125AB |
|       |                 |                 | ±20%                 | CGA4J3X5R1H335M125AB | CGA4J3X5R1V335M125AB | CGA4J3X5R1E335M125AB |
|       | 3216            | 1.60+0.30,-0.10 | ±10%                 | CGA5L3X5R1H335K160AB | CGA5L3X5R1V335K160AB | CGA5L2X5R1E335K160AA |
|       |                 |                 | ±20%                 | CGA5L3X5R1H335M160AB | CGA5L3X5R1V335M160AB | CGA5L2X5R1E335M160AA |
| 4.7µF | 2012            | 1.25±0.20       | ±10%                 | CGA4J3X5R1H475K125AB | CGA4J3X5R1V475K125AB | CGA4J3X5R1E475K125AB |
|       |                 |                 | ±20%                 | CGA4J3X5R1H475M125AB | CGA4J3X5R1V475M125AB | CGA4J3X5R1E475M125AB |
|       | 3216            | 1.60+0.30,-0.10 | ±10%                 | CGA5L3X5R1H475K160AB | CGA5L3X5R1V475K160AB | CGA5L2X5R1E475K160AA |
|       |                 |                 | ±20%                 | CGA5L3X5R1H475M160AB | CGA5L3X5R1V475M160AB | CGA5L2X5R1E475M160AA |
| 6.8µF | 3216            | 1.60+0.30,-0.10 | ±10%                 | CGA5L3X5R1H685K160AB | CGA5L3X5R1V685K160AB | CGA5L3X5R1E685K160AB |
|       |                 |                 | ±20%                 | CGA5L3X5R1H685M160AB | CGA5L3X5R1V685M160AB | CGA5L3X5R1E685M160AB |
| 10µF  | 3216            | 1.60+0.30,-0.10 | ±10%                 | CGA5L3X5R1H106K160AB | CGA5L3X5R1V106K160AB | CGA5L3X5R1E106K160AB |
|       |                 |                 | ±20%                 | CGA5L3X5R1H106M160AB | CGA5L3X5R1V106M160AB | CGA5L3X5R1E106M160AB |

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## 电容范围表

温度特性: X5R (-55 to +85°C、±15%)

| 电容    | 尺寸        | 厚度<br>(mm)      | 电容容差 | 目录型号                 |                      |                |
|-------|-----------|-----------------|------|----------------------|----------------------|----------------|
|       |           |                 |      | 额定电压 Edc: 16V        | 额定电压 Edc: 10V        | 额定电压 Edc: 6.3V |
| 33nF  | 1005      | 0.50±0.05       | ±10% | CGA2B2X5R1C333K050BA |                      |                |
|       |           |                 | ±20% | CGA2B2X5R1C333M050BA |                      |                |
| 47nF  | 1005      | 0.50±0.05       | ±10% | CGA2B2X5R1C473K050BA |                      |                |
|       |           |                 | ±20% | CGA2B2X5R1C473M050BA |                      |                |
| 68nF  | 1005      | 0.50±0.05       | ±10% | CGA2B2X5R1C683K050BA |                      |                |
|       |           |                 | ±20% | CGA2B2X5R1C683M050BA |                      |                |
| 100nF | 1005      | 0.50±0.05       | ±10% | CGA2B2X5R1C104K050BA | CGA2B2X5R1A104K050BA |                |
|       |           |                 | ±20% | CGA2B2X5R1C104M050BA | CGA2B2X5R1A104M050BA |                |
| 150nF | 1005      | 0.50±0.05       | ±10% | CGA2B1X5R1C154K050BC | CGA2B3X5R1A154K050BB |                |
|       |           |                 | ±20% | CGA2B1X5R1C154M050BC | CGA2B3X5R1A154M050BB |                |
| 220nF | 1005      | 0.50±0.05       | ±10% | CGA2B1X5R1C224K050BC | CGA2B3X5R1A224K050BB |                |
|       |           |                 | ±20% | CGA2B1X5R1C224M050BC | CGA2B3X5R1A224M050BB |                |
|       | 1608      | 0.80±0.10       | ±10% | CGA3E2X5R1C224K080AA |                      |                |
|       |           |                 | ±20% | CGA3E2X5R1C224M080AA |                      |                |
| 330nF | 1608      | 0.80±0.10       | ±10% | CGA3E2X5R1C334K080AA | CGA3E2X5R1A334K080AA |                |
|       |           |                 | ±20% | CGA3E2X5R1C334M080AA | CGA3E2X5R1A334M080AA |                |
| 470nF | 1608      | 0.80±0.10       | ±10% | CGA3E2X5R1C474K080AA | CGA3E2X5R1A474K080AA |                |
|       |           |                 | ±20% | CGA3E2X5R1C474M080AA | CGA3E2X5R1A474M080AA |                |
| 680nF | 1608      | 0.80±0.10       | ±10% | CGA3E2X5R1C684K080AA | CGA3E2X5R1A684K080AA |                |
|       |           |                 | ±20% | CGA3E2X5R1C684M080AA | CGA3E2X5R1A684M080AA |                |
|       | 2012      | 1.25±0.20       | ±10% | CGA4J2X5R1C684K125AA |                      |                |
|       |           |                 | ±20% | CGA4J2X5R1C684M125AA |                      |                |
| 1µF   | 1608      | 0.80±0.10       | ±10% | CGA3E1X5R1C105K080AC | CGA3E2X5R1A105K080AA |                |
|       |           |                 | ±20% | CGA3E1X5R1C105M080AC | CGA3E2X5R1A105M080AA |                |
|       | 2012      | 1.25±0.20       | ±10% | CGA4J2X5R1C105K125AA |                      |                |
|       |           |                 | ±20% | CGA4J2X5R1C105M125AA |                      |                |
| 1.5µF | 1608      | 0.80±0.10       | ±10% | CGA3E1X5R1C155K080AC | CGA3E3X5R1A155K080AB |                |
|       |           |                 | ±20% | CGA3E1X5R1C155M080AC | CGA3E3X5R1A155M080AB |                |
|       | 2012      | 1.25±0.20       | ±10% | CGA4J2X5R1C155K125AA | CGA4J2X5R1A155K125AA |                |
|       |           |                 | ±20% | CGA4J2X5R1C155M125AA | CGA4J2X5R1A155M125AA |                |
| 2.2µF | 1608      | 0.80±0.10       | ±10% | CGA3E1X5R1C225K080AC | CGA3E3X5R1A225K080AB |                |
|       |           |                 | ±20% | CGA3E1X5R1C225M080AC | CGA3E3X5R1A225M080AB |                |
|       | 2012      | 1.25±0.20       | ±10% | CGA4J2X5R1C225K125AA | CGA4J2X5R1A225K125AA |                |
|       |           |                 | ±20% | CGA4J2X5R1C225M125AA | CGA4J2X5R1A225M125AA |                |
| 3.3µF | 1608      | 0.80±0.10       | ±10% | CGA3E1X5R1A335K080AC | CGA3E3X5R0J335K080AB |                |
|       |           |                 | ±20% | CGA3E1X5R1A335M080AC | CGA3E3X5R0J335M080AB |                |
|       | 2012      | 1.25±0.20       | ±10% | CGA4J3X5R1C335K125AB | CGA4J2X5R1A335K125AA |                |
|       |           |                 | ±20% | CGA4J3X5R1C335M125AB | CGA4J2X5R1A335M125AA |                |
| 1608  | 0.80±0.10 | ±10%            |      | CGA3E1X5R0J475K080AC |                      |                |
|       |           | ±20%            |      | CGA3E1X5R0J475M080AC |                      |                |
| 4.7µF | 2012      | 1.25±0.20       | ±10% | CGA4J3X5R1C475K125AB | CGA4J2X5R1A475K125AA |                |
|       |           |                 | ±20% | CGA4J3X5R1C475M125AB | CGA4J2X5R1A475M125AA |                |
|       | 3216      | 1.60+0.30,-0.10 | ±10% | CGA5L2X5R1C475K160AA |                      |                |
|       |           |                 | ±20% | CGA5L2X5R1C475M160AA |                      |                |
| 6.8µF | 2012      | 1.25±0.20       | ±10% | CGA4J1X5R1C685K125AC | CGA4J3X5R1A685K125AB |                |
|       |           |                 | ±20% | CGA4J1X5R1C685M125AC | CGA4J3X5R1A685M125AB |                |
|       | 3216      | 1.60+0.30,-0.10 | ±10% | CGA5L2X5R1C685K160AA |                      |                |
|       |           |                 | ±20% | CGA5L2X5R1C685M160AA |                      |                |
| 10µF  | 2012      | 1.25±0.20       | ±10% | CGA4J1X5R1C106K125AC | CGA4J3X5R1A106K125AB |                |
|       |           |                 | ±20% | CGA4J1X5R1C106M125AC | CGA4J3X5R1A106M125AB |                |
|       | 3216      | 1.60+0.30,-0.10 | ±10% | CGA5L1X5R1C106K160AC |                      |                |
|       |           |                 | ±20% | CGA5L1X5R1C106M160AC |                      |                |
| 15µF  | 3216      | 1.60+0.30,-0.10 | ±20% | CGA5L1X5R1C156M160AC |                      |                |
| 22µF  | 3216      | 1.60+0.30,-0.10 | ±20% | CGA5L1X5R1C226M160AC |                      |                |

■ 灰色涂层的品名, 为新设计非推荐品。

## 电容范围表

温度特性: X7R (-55 to +125°C、±15%)

| 电容    | 尺寸   | 厚度<br>(mm) | 电容容差 | 目录型号                 |                      |  |
|-------|------|------------|------|----------------------|----------------------|--|
|       |      |            |      | 额定电压 Edc: 50V        |                      |  |
|       |      |            |      | 额定电压 Edc: 35V        | 额定电压 Edc: 25V        |  |
| 100pF | 0603 | 0.30±0.03  | ±10% | CGA1A2X7R1H101K030BA | CGA1A2X7R1E101K030BA |  |
|       |      |            | ±20% | CGA1A2X7R1H101M030BA | CGA1A2X7R1E101M030BA |  |
| 150pF | 0603 | 0.30±0.03  | ±10% | CGA1A2X7R1H151K030BA | CGA1A2X7R1E151K030BA |  |
|       |      |            | ±20% | CGA1A2X7R1H151M030BA | CGA1A2X7R1E151M030BA |  |
| 220pF | 0603 | 0.30±0.03  | ±10% | CGA1A2X7R1H221K030BA | CGA1A2X7R1E221K030BA |  |
|       |      |            | ±20% | CGA1A2X7R1H221M030BA | CGA1A2X7R1E221M030BA |  |
|       | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H221K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H221M050BA |                      |  |
| 330pF | 0603 | 0.30±0.03  | ±10% | CGA1A2X7R1H331K030BA | CGA1A2X7R1E331K030BA |  |
|       |      |            | ±20% | CGA1A2X7R1H331M030BA | CGA1A2X7R1E331M030BA |  |
|       | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H331K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H331M050BA |                      |  |
| 470pF | 0603 | 0.30±0.03  | ±10% | CGA1A2X7R1H471K030BA | CGA1A2X7R1E471K030BA |  |
|       |      |            | ±20% | CGA1A2X7R1H471M030BA | CGA1A2X7R1E471M030BA |  |
|       | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H471K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H471M050BA |                      |  |
| 680pF | 0603 | 0.30±0.03  | ±10% |                      | CGA1A2X7R1E681K030BA |  |
|       |      |            | ±20% |                      | CGA1A2X7R1E681M030BA |  |
|       | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H681K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H681M050BA |                      |  |
| 1nF   | 0603 | 0.30±0.03  | ±10% |                      | CGA1A2X7R1E102K030BA |  |
|       |      |            | ±20% |                      | CGA1A2X7R1E102M030BA |  |
|       | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H102K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H102M050BA |                      |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H102K080AA |                      |  |
|       |      |            | ±20% | CGA3E2X7R1H102M080AA |                      |  |
| 1.5nF | 0603 | 0.30±0.03  | ±10% |                      | CGA1A2X7R1E152K030BA |  |
|       |      |            | ±20% |                      | CGA1A2X7R1E152M030BA |  |
|       | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H152K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H152M050BA |                      |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H152K080AA |                      |  |
|       |      |            | ±20% | CGA3E2X7R1H152M080AA |                      |  |
| 2.2nF | 0603 | 0.30±0.03  | ±10% |                      | CGA1A2X7R1E222K030BA |  |
|       |      |            | ±20% |                      | CGA1A2X7R1E222M030BA |  |
|       | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H222K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H222M050BA |                      |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H222K080AA |                      |  |
|       |      |            | ±20% | CGA3E2X7R1H222M080AA |                      |  |
| 3.3nF | 0603 | 0.30±0.03  | ±10% |                      | CGA1A2X7R1E332K030BA |  |
|       |      |            | ±20% |                      | CGA1A2X7R1E332M030BA |  |
|       | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H332K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H332M050BA |                      |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H332K080AA |                      |  |
|       |      |            | ±20% | CGA3E2X7R1H332M080AA |                      |  |
| 4.7nF | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H472K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H472M050BA |                      |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H472K080AA |                      |  |
|       |      |            | ±20% | CGA3E2X7R1H472M080AA |                      |  |
| 6.8nF | 1005 | 0.50±0.05  | ±10% | CGA2B2X7R1H682K050BA |                      |  |
|       |      |            | ±20% | CGA2B2X7R1H682M050BA |                      |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H682K080AA |                      |  |
|       |      |            | ±20% | CGA3E2X7R1H682M080AA |                      |  |
| 10nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X7R1H103K050BB | CGA2B3X7R1V103K050BB |  |
|       |      |            | ±20% | CGA2B3X7R1H103M050BB | CGA2B3X7R1V103M050BB |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H103K080AA | CGA2B2X7R1E103M050BA |  |
|       |      |            | ±20% | CGA3E2X7R1H103M080AA |                      |  |
| 15nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X7R1H153K050BB | CGA2B3X7R1V153K050BB |  |
|       |      |            | ±20% | CGA2B3X7R1H153M050BB | CGA2B3X7R1V153M050BB |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H153K080AA | CGA2B2X7R1E153M050BA |  |
|       |      |            | ±20% | CGA3E2X7R1H153M080AA |                      |  |
| 22nF  | 1005 | 0.50±0.05  | ±10% | CGA2B3X7R1H223K050BB | CGA2B3X7R1V223K050BB |  |
|       |      |            | ±20% | CGA2B3X7R1H223M050BB | CGA2B3X7R1V223M050BB |  |
|       | 1608 | 0.80±0.10  | ±10% | CGA3E2X7R1H223K080AA | CGA2B2X7R1E223M050BA |  |
|       |      |            | ±20% | CGA3E2X7R1H223M080AA |                      |  |

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MULTILAYER CERAMIC CHIP CAPACITORS



电容范围表

温度特性: X7R (-55 to +125°C、±15%)

| 电容    | 尺寸   | 厚度 (mm)   | 电容容差 | 目录型号                 |                      |                      |
|-------|------|-----------|------|----------------------|----------------------|----------------------|
|       |      |           |      | 额定电压 Edc: 50V        |                      |                      |
|       |      |           |      | 额定电压 Edc: 50V        | 额定电压 Edc: 35V        | 额定电压 Edc: 25V        |
| 33nF  | 1005 | 0.50±0.05 | ±10% | CGA2B3X7R1H333K050BB | CGA2B3X7R1V333K050BB | CGA2B1X7R1E333K050BC |
|       |      |           | ±20% | CGA2B3X7R1H333M050BB | CGA2B3X7R1V333M050BB | CGA2B1X7R1E333M050BC |
|       | 1608 | 0.80±0.10 | ±10% | CGA3E2X7R1H333K080AA |                      |                      |
|       |      |           | ±20% | CGA3E2X7R1H333M080AA |                      |                      |
| 47nF  | 1005 | 0.50±0.05 | ±10% | CGA2B3X7R1H473K050BB | CGA2B3X7R1V473K050BB | CGA2B1X7R1E473K050BC |
|       |      |           | ±20% | CGA2B3X7R1H473M050BB | CGA2B3X7R1V473M050BB | CGA2B1X7R1E473M050BC |
|       | 1608 | 0.80±0.10 | ±10% | CGA3E2X7R1H473K080AA |                      |                      |
|       |      |           | ±20% | CGA3E2X7R1H473M080AA |                      |                      |
| 68nF  | 1005 | 0.50±0.05 | ±10% | CGA2B3X7R1H683K050BB | CGA2B3X7R1V683K050BB | CGA2B3X7R1E683K050BB |
|       |      |           | ±20% | CGA2B3X7R1H683M050BB | CGA2B3X7R1V683M050BB | CGA2B3X7R1E683M050BB |
|       | 1608 | 0.80±0.10 | ±10% | CGA3E2X7R1H683K080AA |                      |                      |
|       |      |           | ±20% | CGA3E2X7R1H683M080AA |                      |                      |
| 100nF | 1005 | 0.50±0.05 | ±10% | CGA2B3X7R1H104K050BB | CGA2B3X7R1V104K050BB | CGA2B3X7R1E104K050BB |
|       |      |           | ±20% | CGA2B3X7R1H104M050BB | CGA2B3X7R1V104M050BB | CGA2B3X7R1E104M050BB |
|       | 1608 | 0.80±0.10 | ±10% | CGA3E2X7R1H104K080AA |                      | CGA3E2X7R1E104K080AA |
|       |      |           | ±20% | CGA3E2X7R1H104M080AA |                      | CGA3E2X7R1E104M080AA |
| 150nF | 1005 | 0.50±0.05 | ±10% |                      | CGA2B1X7R1V154K050BC | CGA2B3X7R1E154K050BB |
|       |      |           | ±20% |                      | CGA2B1X7R1V154M050BC | CGA2B3X7R1E154M050BB |
|       | 1608 | 0.80±0.10 | ±10% | CGA3E3X7R1H154K080AB | CGA3E3X7R1V154K080AB | CGA3E2X7R1E154K080AA |
|       |      |           | ±20% | CGA3E3X7R1H154M080AB | CGA3E3X7R1V154M080AB | CGA3E2X7R1E154M080AA |
| 220nF | 1005 | 0.50±0.05 | ±10% |                      | CGA2B1X7R1V224K050BC | CGA2B3X7R1E224K050BB |
|       |      |           | ±20% |                      | CGA2B1X7R1V224M050BC | CGA2B3X7R1E224M050BB |
|       | 1608 | 0.80±0.10 | ±10% | CGA3E3X7R1H224K080AB | CGA3E3X7R1V224K080AB | CGA3E1X7R1E224K080AC |
|       |      |           | ±20% | CGA3E3X7R1H224M080AB | CGA3E3X7R1V224M080AB | CGA3E1X7R1E224M080AC |
| 330nF | 1005 | 0.50±0.05 | ±10% |                      |                      | CGA4J2X7R1E224K125AA |
|       |      |           | ±20% |                      |                      | CGA4J2X7R1E224M125AA |
|       | 1608 | 0.80±0.10 | ±10% | CGA3E3X7R1H334K080AB | CGA3E1X7R1V334K080AC | CGA3E3X7R1E334K080AB |
|       |      |           | ±20% | CGA3E3X7R1H334M080AB | CGA3E1X7R1V334M080AC | CGA3E3X7R1E334M080AB |
| 470nF | 1005 | 0.50±0.05 | ±10% |                      |                      |                      |
|       |      |           | ±20% |                      |                      |                      |
|       | 1608 | 0.80±0.10 | ±10% | CGA3E3X7R1H474K080AB | CGA3E1X7R1V474K080AC | CGA3E3X7R1E474K080AB |
|       |      |           | ±20% | CGA3E3X7R1H474M080AB | CGA3E1X7R1V474M080AC | CGA3E3X7R1E474M080AB |
| 680nF | 1005 | 0.50±0.05 | ±10% |                      |                      |                      |
|       |      |           | ±20% |                      |                      |                      |
|       | 1608 | 0.80±0.10 | ±10% | CGA4J3X7R1H684K125AB | CGA4J3X7R1V684K125AB | CGA4J3X7R1E684K125AB |
|       |      |           | ±20% | CGA4J3X7R1H684M125AB | CGA4J3X7R1V684M125AB | CGA4J3X7R1E684M125AB |
| 1µF   | 1005 | 0.50±0.05 | ±10% |                      | CGA3E1X7R1V105K080AC | CGA3E1X7R1E105K080AC |
|       |      |           | ±20% |                      | CGA3E1X7R1V105M080AC | CGA3E1X7R1E105M080AC |
|       | 1608 | 0.80±0.10 | ±10% | CGA4J3X7R1H105K125AB | CGA4J3X7R1V105K125AB | CGA4J3X7R1E105K125AB |
|       |      |           | ±20% | CGA4J3X7R1H105M125AB | CGA4J3X7R1V105M125AB | CGA4J3X7R1E105M125AB |
| 1.5µF | 1005 | 0.50±0.05 | ±10% |                      |                      |                      |
|       |      |           | ±20% |                      |                      |                      |
|       | 1608 | 0.80±0.10 | ±10% | CGA5L3X7R1H155K160AB | CGA5L3X7R1V155K160AB | CGA5L2X7R1E155K160AA |
|       |      |           | ±20% | CGA5L3X7R1H155M160AB | CGA5L3X7R1V155M160AB | CGA5L2X7R1E155M160AA |
| 2.2µF | 1005 | 0.50±0.05 | ±10% |                      |                      |                      |
|       |      |           | ±20% |                      |                      |                      |
|       | 1608 | 0.80±0.10 | ±10% | CGA6L2X7R1H155K160AA |                      |                      |
|       |      |           | ±20% | CGA6L2X7R1H155M160AA |                      |                      |

■灰色涂层的品名, 为新设计非推荐品。

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电容范围表

温度特性: X7R (-55 to +125°C、±15%)

| 电容    | 尺寸        | 厚度 (mm)         | 电容容差 | 目录型号                 |                      |                      |                      |
|-------|-----------|-----------------|------|----------------------|----------------------|----------------------|----------------------|
|       |           |                 |      | 额定电压 Edc: 75V        | 额定电压 Edc: 50V        | 额定电压 Edc: 35V        | 额定电压 Edc: 25V        |
| 3.3μF | 2012      | 1.25±0.20       | ±10% |                      |                      | CGA4J1X7R1V335K125AC | CGA4J1X7R1E335K125AC |
|       |           |                 | ±20% |                      |                      | CGA4J1X7R1V335M125AC | CGA4J1X7R1E335M125AC |
|       | 3216      | 1.60+0.30,-0.10 | ±10% |                      | CGA5L3X7R1H335K160AB | CGA5L1X7R1V335K160AC | CGA5L1X7R1E335K160AC |
|       |           |                 | ±20% |                      | CGA5L3X7R1H335M160AB | CGA5L1X7R1V335M160AC | CGA5L1X7R1E335M160AC |
| 3225  | 2.50±0.30 | ±10%            |      | CGA6P3X7R1H335K250AB |                      |                      |                      |
|       |           | ±20%            |      | CGA6P3X7R1H335M250AB |                      |                      |                      |
| 4.7μF | 2012      | 1.25±0.20       | ±10% |                      | CGA4J1X7R1H475K125AC | CGA4J1X7R1V475K125AC | CGA4J1X7R1E475K125AC |
|       |           |                 | ±20% |                      | CGA4J1X7R1V475M125AC | CGA4J1X7R1E475M125AC |                      |
|       | 3216      | 1.60+0.30,-0.10 | ±10% |                      | CGA5L3X7R1H475K160AB | CGA5L1X7R1V475K160AC | CGA5L1X7R1E475K160AC |
|       |           |                 | ±20% |                      | CGA5L3X7R1H475M160AB | CGA5L1X7R1V475M160AC | CGA5L1X7R1E475M160AC |
|       | 3225      | 2.50±0.30       | ±10% |                      | CGA6P3X7R1H475K250AB |                      |                      |
|       |           |                 | ±20% |                      | CGA6P3X7R1H475M250AB |                      |                      |
|       | 4532      | 2.00±0.20       | ±10% |                      | CGA8M2X7R1H335K200KA |                      |                      |
|       |           |                 | ±20% |                      | CGA8M2X7R1E475K160KA |                      |                      |
|       | 4532      | 2.00±0.20       | ±10% |                      | CGA8M3X7R1H475K200KB |                      | CGA8L2X7R1E475K160KA |
|       |           |                 | ±20% |                      | CGA8L2X7R1E475M160KA |                      |                      |
| 5750  | 2.00±0.20 | ±10%            |      | CGA9M2X7R1H475K200KA |                      |                      |                      |
| 6.8μF | 3216      | 1.60+0.30,-0.10 | ±10% |                      | CGA5L1X7R1V685K160AC | CGA5L1X7R1E685K160AC |                      |
|       |           |                 | ±20% |                      | CGA5L1X7R1V685M160AC | CGA5L1X7R1E685M160AC |                      |
|       | 3225      | 2.50±0.30       | ±10% |                      | CGA6P3X7R1E685K250AB |                      |                      |
|       |           |                 | ±20% |                      | CGA6P3X7R1E685M250AB |                      |                      |
| 4532  | 2.50±0.30 | ±10%            |      | CGA8P3X7R1H685K250KB |                      |                      |                      |
|       |           | ±20%            |      | CGA9P2X7R1H685K250KA |                      |                      |                      |
| 10μF  | 3216      | 1.60+0.30,-0.10 | ±10% |                      | CGA5L1X7R1H106K160AC | CGA5L1X7R1V106K160AC | CGA5L1X7R1E106K160AC |
|       |           |                 | ±20% |                      | CGA5L1X7R1V106M160AC | CGA5L1X7R1E106M160AC |                      |
|       | 3225      | 2.50±0.30       | ±10% |                      | CGA6P1X7R1N106M250AC | CGA6P1X7R1E106M250AC |                      |
|       |           |                 | ±20% |                      | CGA6P1X7R1E106M250AC |                      |                      |
|       | 4532      | 2.50±0.30       | ±10% |                      | CGA8P2X7R1E106K250KA |                      |                      |
|       |           |                 | ±20% |                      | CGA9M2X7R1E106M200KA |                      |                      |
| 5750  | 2.00±0.20 | ±10%            |      | CGA9N3X7R1H106K230KB |                      |                      |                      |
| 15μF  | 3225      | 2.00±0.20       | ±20% |                      |                      | CGA6M3X7R1E156M200AB |                      |
|       |           |                 | ±10% |                      | CGA8Q3X7R1E156M280KB |                      |                      |
|       | 4532      | 2.80±0.30       | ±20% |                      | CGA9N2X7R1E156M230KA |                      |                      |
| 22μF  | 3225      | 2.50±0.30       | ±20% |                      | CGA6P3X7R1E226M250AB |                      |                      |
|       |           |                 | ±10% |                      | CGA8P1X7R1E226M250KC |                      |                      |
|       | 4532      | 2.50±0.30       | ±20% |                      | CGA9P2X7R1E226M250KA |                      |                      |
| 47μF  | 5750      | 2.30±0.20       | ±20% |                      |                      | CGA9N3X7R1E476M230KB |                      |
|       |           |                 | ±10% |                      |                      |                      |                      |

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## MULTILAYER CERAMIC CHIP CAPACITORS



## 电容范围表

温度特性: X7R (-55 to +125°C、±15%)

| 电容    | 尺寸              | 厚度<br>(mm)      | 电容容差 | 目录型号                 |                      |                      |
|-------|-----------------|-----------------|------|----------------------|----------------------|----------------------|
|       |                 |                 |      | 额定电压 Edc: 16V        | 额定电压 Edc: 10V        | 额定电压 Edc: 6.3V       |
| 100pF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C101K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C101M030BA |                      |                      |
| 150pF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C151K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C151M030BA |                      |                      |
| 220pF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C221K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C221M030BA |                      |                      |
| 330pF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C331K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C331M030BA |                      |                      |
| 470pF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C471K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C471M030BA |                      |                      |
| 680pF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C681K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C681M030BA |                      |                      |
| 1nF   | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C102K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C102M030BA |                      |                      |
| 1.5nF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C152K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C152M030BA |                      |                      |
| 2.2nF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C222K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C222M030BA |                      |                      |
| 3.3nF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C332K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C332M030BA |                      |                      |
| 4.7nF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C472K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C472M030BA |                      |                      |
| 6.8nF | 0603            | 0.30±0.03       | ±10% | CGA1A2X7R1C682K030BA |                      |                      |
|       |                 |                 | ±20% | CGA1A2X7R1C682M030BA |                      |                      |
| 10nF  | 0603            | 0.30±0.03       | ±10% |                      | CGA1A2X7R1A103K030BA | CGA1A2X7R0J103K030BA |
|       |                 |                 | ±20% |                      | CGA1A2X7R1A103M030BA | CGA1A2X7R0J103M030BA |
| 33nF  | 1005            | 0.50±0.05       | ±10% | CGA2B2X7R1C333K050BA |                      |                      |
|       |                 |                 | ±20% | CGA2B2X7R1C333M050BA |                      |                      |
| 47nF  | 1005            | 0.50±0.05       | ±10% | CGA2B2X7R1C473K050BA |                      |                      |
|       |                 |                 | ±20% | CGA2B2X7R1C473M050BA |                      |                      |
| 68nF  | 1005            | 0.50±0.05       | ±10% | CGA2B1X7R1C683K050BC |                      |                      |
|       |                 |                 | ±20% | CGA2B1X7R1C683M050BC |                      |                      |
| 100nF | 1005            | 0.50±0.05       | ±10% | CGA2B1X7R1C104K050BC |                      |                      |
|       |                 |                 | ±20% | CGA2B1X7R1C104M050BC |                      |                      |
| 150nF | 1005            | 0.50±0.05       | ±10% | CGA2B2X7R1C154K050BA | CGA2B1X7R1A154K050BC | CGA2B3X7R0J154K050BB |
|       |                 |                 | ±20% | CGA2B2X7R1C154M050BA | CGA2B1X7R1A154M050BC | CGA2B3X7R0J154M050BB |
| 220nF | 1005            | 0.50±0.05       | ±10% | CGA2B2X7R1C224K050BA | CGA2B1X7R1A224K050BC | CGA2B3X7R0J224K050BB |
|       |                 |                 | ±20% | CGA2B2X7R1C224M050BA | CGA2B1X7R1A224M050BC | CGA2B3X7R0J224M050BB |
| 330nF | 1608            | 0.80±0.10       | ±10% | CGA3E2X7R1C224K080AA |                      |                      |
|       |                 |                 | ±20% | CGA3E2X7R1C224M080AA |                      |                      |
| 470nF | 1608            | 0.80±0.10       | ±10% | CGA3E1X7R1C334K080AC |                      |                      |
|       |                 |                 | ±20% | CGA3E1X7R1C334M080AC |                      |                      |
| 680nF | 1608            | 0.80±0.10       | ±10% | CGA3E1X7R1C474K080AC |                      |                      |
|       |                 |                 | ±20% | CGA3E1X7R1C474M080AC |                      |                      |
| 1μF   | 2012            | 1.25±0.20       | ±10% | CGA4J2X7R1C474K125AA |                      |                      |
|       |                 |                 | ±20% | CGA4J2X7R1C474M125AA |                      |                      |
| 1.5μF | 1608            | 0.80±0.10       | ±10% | CGA3E1X7R1C105K080AC |                      | CGA3E1X7R0J155K080AC |
|       |                 |                 | ±20% | CGA3E1X7R1C105M080AC |                      | CGA3E1X7R0J155M080AC |
| 2.2μF | 2012            | 1.25±0.20       | ±10% | CGA4J3X7R1C155K125AB |                      |                      |
|       |                 |                 | ±20% | CGA4J3X7R1C155M125AB |                      |                      |
| 3.3μF | 1608            | 0.80±0.10       | ±10% |                      |                      | CGA3E1X7R0J225K080AC |
|       |                 |                 | ±20% |                      |                      | CGA3E1X7R0J225M080AC |
| 4.7μF | 2012            | 1.25±0.20       | ±10% | CGA4J3X7R1C225K125AB |                      |                      |
|       |                 |                 | ±20% | CGA4J3X7R1C225M125AB |                      |                      |
| 3.3μF | 2012            | 1.25±0.20       | ±10% | CGA4J3X7R1C335K125AB | CGA4J3X7R1A335K125AB |                      |
|       |                 |                 | ±20% | CGA4J3X7R1C335M125AB |                      |                      |
| 4.7μF | 2012            | 1.25±0.20       | ±10% | CGA4J3X7R1C475K125AB | CGA4J3X7R1A475K125AB |                      |
|       |                 |                 | ±20% | CGA4J3X7R1C475M125AB |                      |                      |
| 3216  | 1.60+0.30,-0.10 | 1.60+0.30,-0.10 | ±10% | CGA5L3X7R1C475K160AB |                      |                      |
|       |                 |                 | ±20% | CGA5L3X7R1C475M160AB |                      |                      |

■灰色涂层的品名, 为新设计非推荐品。

⚠ 为了能够更加正确、安全地使用产品, 请务必索取能进一步确认详细特性、规格的采购规格书。  
记载内容可能因为产品改良等原因不经预告而更改, 恕不另行通知。

## 电容范围表

温度特性: X7R (-55 to +125°C、±15%)

| 电容    | 尺寸        | 厚度<br>(mm)      | 电容容差                 | 目录型号                 |                      |
|-------|-----------|-----------------|----------------------|----------------------|----------------------|
|       |           |                 |                      | 额定电压 Edc: 16V        | 额定电压 Edc: 6.3V       |
| 6.8μF | 2012      | 1.25±0.20       | ±10%                 |                      | CGA4J1X7R0J685K125AC |
|       |           |                 | ±20%                 |                      | CGA4J1X7R0J685M125AC |
|       | 3216      | 1.60+0.30,-0.10 | ±10%                 | CGA5L1X7R1C685K160AC |                      |
|       |           |                 | ±20%                 | CGA5L1X7R1C685M160AC |                      |
| 10μF  | 2012      | 1.25±0.20       | ±10%                 |                      | CGA4J1X7R0J106K125AC |
|       |           |                 | ±20%                 |                      | CGA4J1X7R0J106M125AC |
|       | 3216      | 1.60+0.30,-0.10 | ±10%                 | CGA5L1X7R1C106K160AC |                      |
|       |           |                 | ±20%                 | CGA5L1X7R1C106M160AC |                      |
| 3225  | 2.00±0.20 | ±10%            | CGA6M3X7R1C106K200AB |                      |                      |
|       |           | ±20%            | CGA6M3X7R1C106M200AB |                      |                      |
| 15μF  | 3225      | 2.50±0.30       | ±20%                 | CGA6P3X7R1C156M250AB |                      |
|       | 3216      | 1.60+0.30,-0.10 | ±20%                 |                      | CGA5L1X7R0J226M160AC |
| 22μF  | 3225      | 2.50±0.30       | ±20%                 | CGA6P1X7R1C226M250AC |                      |
|       | 4532      | 2.30±0.20       | ±20%                 | CGA8N3X7R1C226M230KB |                      |
|       | 33μF      | 4532            | 2.50±0.30            | ±20%                 | CGA8P1X7R1C336M250KC |
| 47μF  | 5750      | 2.30±0.20       | ±20%                 | CGA9N3X7R1C476M230KB |                      |

■灰色涂层的品名，为新规设计非推荐品。

## 电容范围表

温度特性: X7S (-55 to +125°C、±22%)

| 电容    | 尺寸   | 厚度<br>(mm) | 电容容差                 | 目录型号                 |                      |                      |
|-------|------|------------|----------------------|----------------------|----------------------|----------------------|
|       |      |            |                      | 额定电压 Edc: 50V        | 额定电压 Edc: 25V        | 额定电压 Edc: 16V        |
| 330nF | 1005 | 0.50±0.05  | ±10%                 |                      |                      | CGA2B1X7S1C334K050BC |
|       |      |            | ±20%                 |                      |                      | CGA2B1X7S1C334M050BC |
| 470nF | 1005 | 0.50±0.05  | ±10%                 |                      |                      | CGA2B1X7S1C474K050BC |
|       |      |            | ±20%                 |                      |                      | CGA2B1X7S1C474M050BC |
| 1.5μF | 1608 | 0.80±0.10  | ±10%                 |                      |                      | CGA3E1X7S1C155K080AC |
|       |      |            | ±20%                 |                      |                      | CGA3E1X7S1C155M080AC |
| 2.2μF | 1608 | 0.80±0.10  | ±10%                 |                      |                      | CGA3E1X7S1C225K080AC |
|       |      |            | ±20%                 |                      |                      | CGA3E1X7S1C225M080AC |
| 4.7μF | 3225 | 2.30±0.20  | ±10%                 | CGA6N3X7S1H475K230AB |                      |                      |
|       | 2012 | 1.25±0.20  | ±10%                 |                      |                      | CGA4J1X7S1C685K125AC |
| ±20%  |      |            |                      |                      | CGA4J1X7S1C685M125AC |                      |
| 6.8μF | 3225 | 2.50±0.30  | ±10%                 | CGA6P3X7S1H685K250AB |                      |                      |
|       |      |            | ±20%                 | CGA6P3X7S1H685M250AB |                      |                      |
| 10μF  | 2012 | 1.25±0.20  | ±10%                 |                      | CGA4J1X7S1E106K125AC | CGA4J1X7S1C106K125AC |
|       | 3225 | 2.50±0.30  | ±20%                 |                      |                      | CGA4J1X7S1C106M125AC |
| ±10%  |      |            | CGA6P3X7S1H106K250AB |                      |                      |                      |
|       |      |            | ±20%                 | CGA6P3X7S1H106M250AB |                      |                      |

■灰色涂层的品名, 为新规设计非推荐品。

| 电容    | 尺寸   | 厚度<br>(mm)      | 电容容差                 | 目录型号                 |                      |                      |
|-------|------|-----------------|----------------------|----------------------|----------------------|----------------------|
|       |      |                 |                      | 额定电压 Edc: 10V        | 额定电压 Edc: 6.3V       | 额定电压 Edc: 4V         |
| 330nF | 1005 | 0.50±0.05       | ±10%                 | CGA2B3X7S1A334K050BB |                      |                      |
|       |      |                 | ±20%                 | CGA2B3X7S1A334M050BB |                      |                      |
| 470nF | 1005 | 0.50±0.05       | ±10%                 | CGA2B3X7S1A474K050BB |                      |                      |
|       |      |                 | ±20%                 | CGA2B3X7S1A474M050BB |                      |                      |
| 1.5μF | 1608 | 0.80±0.10       | ±10%                 | CGA3E3X7S1A155K080AB |                      |                      |
|       |      |                 | ±20%                 | CGA3E3X7S1A155M080AB |                      |                      |
| 2.2μF | 1608 | 0.80±0.10       | ±10%                 | CGA3E3X7S1A225K080AB |                      |                      |
|       |      |                 | ±20%                 | CGA3E3X7S1A225M080AB |                      |                      |
| 6.8μF | 2012 | 1.25±0.20       | ±10%                 | CGA4J3X7S1A685K125AB |                      |                      |
|       |      |                 | ±20%                 | CGA4J3X7S1A685M125AB |                      |                      |
| 10μF  | 1608 | 0.80+0.30,-0.10 | ±20%                 |                      |                      | CGA3E1X7S0G106M080AC |
|       | 2012 | 1.25±0.20       | ±10%                 | CGA4J3X7S1A106K125AB |                      |                      |
| ±20%  |      |                 | CGA4J3X7S1A106M125AB |                      |                      |                      |
| 15μF  | 3216 | 1.60+0.30,-0.10 | ±20%                 | CGA5L1X7S1A156M160AC |                      |                      |
| 22μF  | 3216 | 1.60+0.30,-0.10 | ±20%                 | CGA5L1X7S1A226M160AC |                      |                      |
| 33μF  | 3225 | 2.50±0.30       | ±20%                 |                      | CGA6P1X7SQJ336M250AC |                      |
| 47μF  | 3225 | 2.50±0.30       | ±20%                 |                      | CGA6P1X7SQU476M250AC |                      |

■灰色涂层的品名, 为新规设计非推荐品。

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