

SANYEAR

多层片式陶瓷电容器规格书 MULTILAYER CHIP CERAMIC CAPACITOR CATALOG

深圳市美隆电子有限公司
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常规多层片式陶瓷电容器 General Multilayers Chip Ceramic Capacitor

产品特点 Product Features

- COG (NPO)：最常用的温度补偿型电容器，属于Ⅰ类介质材料，其性能稳定，温度系数在 $0 \pm 30\text{PPM}/^\circ\text{C}$ 以内，具有好的高频特性。
- X7R：工业中广泛使用的一种温度稳定型电容器，属于Ⅱ类介质材料，具有较高的介电常数，在使用温度（ $-55^\circ\text{C} \sim +125^\circ\text{C}$ ）范围内容值变化率在 $\pm 15\%$ 以内。
- X6S：工业中广泛使用的一种温度稳定型电容器，属于Ⅱ类介质材料，具有较高的介电常数，在使用温度（ $-55^\circ\text{C} \sim +105^\circ\text{C}$ ）范围内容值变化率在 $\pm 22\%$ 以内。
- X5R：工业中广泛使用的一种温度稳定型电容器，属于Ⅱ类介质材料，具有较高的介电常数，在使用温度（ $-55^\circ\text{C} \sim +85^\circ\text{C}$ ）范围内容值变化率在 $\pm 15\%$ 以内。
- Y5V：普通用途的电容器，在使用温度（ $-30^\circ\text{C} \sim +85^\circ\text{C}$ ）范围内容值变化率较大， $+22\%/-82\%$ 以内，具有高介电常数，可以用小的尺寸做大容量的电容。

- COG(NPO): The most normal temperature compensated capacitor,belongs to Class I dielectric material with stable performance,TC $0 \pm 30\text{ppm}/^\circ\text{C}$,high frequency.
- X7R: Widely used in industries temperature stable capacitor,belongs to Class II dielectric material with high dielectric constant,and the capacitance changed rate is $\pm 15\%$ for working temperature($-55^\circ\text{C} \sim +125^\circ\text{C}$).
- X6S: Widely used in industries temperature stable capacitor,belongs to Class II dielectric material with high dielectric constant,and the capacitance changed rate is $\pm 22\%$ for working temperature($-55^\circ\text{C} \sim +105^\circ\text{C}$).
- X5R: Widely used in industries temperature stable capacitor,belongs to Class II dielectric material with high dielectric constant,and the capacitance changed rate is $\pm 15\%$ for working temperature($-55^\circ\text{C} \sim +85^\circ\text{C}$).
- Y5V: Y5V dielectric is generally used dielectric material,belongs to Class II dielectric material,it shows a variation of capacitance within $+22\%/-85\%$ when the temperature is between $-30^\circ\text{C} \sim +85^\circ\text{C}$. This kind of dielectric is with very high dielectric constant and suitable for high value capacitors.

产品规格型号 Part Number

| C | 0603 | X7R | 102 | K | 500 | N | T |
|--------------------------|---------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------|---------------------------------|
| 产品类型 Product Type | 尺寸 Size | 温度系数 温度特性 T.C. | 电容值 Capacitance | 允许偏差 Tolerance | 额定电压 Rate Voltage | 端头类型 Terminal Type | 包装 Packaging |
| 多层式 陶瓷电 容器 MLCC | 01005 0201 0402 0603 0805 1206 1210 1808 1812 2220 2225 | COG (NPO) X7R X6S X5R Y5V | 1R5=1.5pF 100=10pF 222=2.2NF 105=1uF 475=4.7uF | A= $\pm 0.05\text{pF}$ B= $\pm 0.1\text{pF}$ C= $\pm 0.25\text{pF}$ D= $\pm 0.5\text{pF}$ F= $\pm 1\%$ G= $\pm 2\%$ J= $\pm 5\%$ K= $\pm 10\%$ M= $\pm 20\%$ Z= $+80\%$ -20% | 4R0=4V 6R3=6.3V 250=25V 500=50V 101=100V 251=250V 102=1KV | N:银 (或铜) /镍/锡 N=Ag (or Cu) /Ni/Sn | T=编带 Taping B=袋散装 Bulk |

Ceramic Dielectric Material

External Electrode

Inner Electrode

| 尺寸 Size | MLCC尺寸规格 (单位: mm) | | | |
|------------|-------------------|---|---------|---------|
| | L | W | H (max) | B (max) |
| | | | | |
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■ 产品容值范围 Product Capacitance Range

背景色代表：可生产型号

| 材质 | COG | | | | | | | | | | | |
|-----------------|-------|------|----|------|------|------|------|------|------|------|------|------|
| | 01005 | 0201 | | 0402 | 0603 | 0805 | 1206 | 1210 | 1808 | 1812 | 2220 | 2225 |
| V _{DC} | 6.3 | 16 | 50 | 10 | 10 | 10 | 16 | 16 | 16 | 16 | 16 | 16 |
| C _p | 10 | 25 | | 16 | 16 | 16 | 25 | 25 | 25 | 25 | 25 | 25 |
| | 16 | | | 25 | 25 | 25 | 50 | 50 | 50 | 50 | 50 | 50 |
| 25 | | | | 50 | 50 | 50 | | | | | | |
| 0R47 | | | | | | | | | | | | |
| 0R5 | | | | | | | | | | | | |
| 0R56 | | | | | | | | | | | | |
| 0R68 | | | | | | | | | | | | |
| 0R82 | | | | | | | | | | | | |
| 1R0 | | | | | | | | | | | | |
| 1R2 | | | | | | | | | | | | |
| 1R3 | | | | | | | | | | | | |
| 1R5 | | | | | | | | | | | | |
| 1R8 | | | | | | | | | | | | |
| 2R2 | | | | | | | | | | | | |
| 2R7 | | | | | | | | | | | | |
| 3R3 | | | | | | | | | | | | |
| 3R9 | | | | | | | | | | | | |
| 4R7 | | | | | | | | | | | | |
| 5R6 | | | | | | | | | | | | |
| 6R8 | | | | | | | | | | | | |
| 8R2 | | | | | | | | | | | | |
| 9R0 | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |
| 150 | | | | | | | | | | | | |
| 180 | | | | | | | | | | | | |
| 220 | | | | | | | | | | | | |
| 270 | | | | | | | | | | | | |
| 330 | | | | | | | | | | | | |
| 390 | | | | | | | | | | | | |
| 470 | | | | | | | | | | | | |
| 560 | | | | | | | | | | | | |
| 680 | | | | | | | | | | | | |
| 750 | | | | | | | | | | | | |
| 820 | | | | | | | | | | | | |
| 101 | | | | | | | | | | | | |
| 121 | | | | | | | | | | | | |
| 151 | | | | | | | | | | | | |
| 181 | | | | | | | | | | | | |
| 221 | | | | | | | | | | | | |
| 271 | | | | | | | | | | | | |
| 331 | | | | | | | | | | | | |
| 391 | | | | | | | | | | | | |
| 471 | | | | | | | | | | | | |
| 511 | | | | | | | | | | | | |
| 561 | | | | | | | | | | | | |
| 681 | | | | | | | | | | | | |
| 821 | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | |
| 122 | | | | | | | | | | | | |
| 152 | | | | | | | | | | | | |
| 182 | | | | | | | | | | | | |
| 222 | | | | | | | | | | | | |
| 272 | | | | | | | | | | | | |
| 332 | | | | | | | | | | | | |
| 392 | | | | | | | | | | | | |
| 472 | | | | | | | | | | | | |
| 562 | | | | | | | | | | | | |
| 682 | | | | | | | | | | | | |
| 822 | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | |
| 123 | | | | | | | | | | | | |
| 153 | | | | | | | | | | | | |
| 183 | | | | | | | | | | | | |
| 223 | | | | | | | | | | | | |
| 273 | | | | | | | | | | | | |
| 333 | | | | | | | | | | | | |
| 473 | | | | | | | | | | | | |
| 563 | | | | | | | | | | | | |
| 104 | | | | | | | | | | | | |

■ 产品容值范围 Product Capacitance Range

背景色代表：可生产型号

| 材质 | X7R | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-------|----|------|----|------|-----|------|----|------|-----|------|------|------|------|------|----|----|-----|----|----|----|-----|----|----|----|
| | 01005 | | 0201 | | 0402 | | 0603 | | 0805 | | 1206 | 1210 | 1812 | 2220 | 2225 | | | | | | | | | | |
| 尺寸 | 6.3 | 10 | 6.3 | 10 | 50 | 6.3 | 10 | 16 | 50 | 6.3 | 10 | 25 | 50 | 6.3 | 10 | 25 | 50 | 6.3 | 10 | 25 | 50 | 6.3 | 10 | 25 | 50 |
| V_{DC} | 10 | 16 | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| C_p | 6.3 | 10 | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 101 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 121 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 151 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 181 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 221 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 241 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 271 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 331 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 391 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 471 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 511 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 561 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 681 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 821 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 122 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 182 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 222 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 272 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 332 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 392 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 472 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 562 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 682 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 822 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 123 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 153 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 183 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 223 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 273 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 333 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 393 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 473 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 563 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 823 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 124 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 154 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 184 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 224 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 274 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 334 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 394 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 474 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 564 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 684 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 824 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 155 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 225 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 275 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 335 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 395 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 475 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 565 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 476 | | | | | | | | | | | | | | | | | | | | | | | | | |

■ 产品容值范围 Product Capacitance Range

背景色代表：可生产型号

| 材质 | | X6S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------|-------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 尺寸 | | 01005 | | | | 0201 | | | | 0402 | | | | 0603 | | | | 0805 | | | | 1206 | | | | 1210 | | | | 1812 | | | | 2220 | | | | | | | | | | | | | | | | | | | | | |
| V _{DC} | C _p | 4 | 6.3 | 10 | 4 | 10 | 16 | 25 | 50 | 6.3 | 16 | 25 | 50 | 6.3 | 16 | 25 | 50 | 6.3 | 16 | 25 | 50 | 6.3 | 16 | 25 | 50 | 6.3 | 16 | 25 | 50 | 6.3 | 16 | 25 | 50 | 6.3 | 16 | 25 | 50 | | | | | | | | | | | | | | | | | | |
| | | 101 | 121 | 151 | 181 | 221 | 271 | 331 | 391 | 471 | 511 | 561 | 681 | 821 | 102 | 122 | 152 | 182 | 222 | 272 | 332 | 392 | 472 | 562 | 682 | 822 | 103 | 123 | 153 | 183 | 223 | 273 | 333 | 393 | 473 | 563 | 823 | 104 | 124 | 154 | 184 | 224 | 274 | 334 | 394 | 474 | 564 | 684 | 824 | 105 | 225 | 475 | 106 | 226 | 476 |

■ 产品容值范围 Product Capacitance Range

背景色代表：可生产型号

| 材质 | Y5V | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|-----------|----|----|----|-----------|----|----|------|-----------|----|----|------|-----------|----|------|----|-----------|------|----|----|-----------|----|------|----|-----------|----|----|----|
| | 0402 | | | | 0603 | | | 0805 | | | | 1206 | | | 1210 | | | 1808 | | | 1812 | | 2220 | | 2225 | | | |
| 尺寸 | V_{DC} | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.3 10 | 16 | 25 | 50 | 6.3 10 | 16 | 25 | 50 | 6.3 10 | 16 | 25 | 50 | 6.3 10 | 16 | 25 | 50 | 6.3 10 | 16 | 25 | 50 | 6.3 10 | 16 | 25 | 50 | 6.3 10 | 16 | 25 | 50 |
| C_p | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 123 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 153 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 183 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 273 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 333 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 393 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 473 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 563 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 823 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 124 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 154 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 184 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 224 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 274 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 334 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 394 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 474 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 564 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 684 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 824 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 155 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 275 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 335 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 395 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 565 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 476 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NO | 项目 Item | 技术指标 Specification | | 实验方法 Test Method |
|-----|--------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 外观 Appearance | 容量变化 Cap change | |
| *13 | 耐湿负荷 Damp heat with load | 外观 Appearance | 无明显可见损伤 No remarkable visual damage | 测试温度: 40±2℃ 相对湿度: 90~95%RH 测试电压: 额定电压 (最大500V) 测试时间: 500±12hrs Test temperature:40±2℃ Humidity:90~95% RH Voltage:100% of the rated voltage(max:500V) Testing time:500±12hrs |
| | | 容量变化 Cap change | C0G: ±7.5%或±0.75pF,取较大值 X7R/X6S/X5R: ±25% Y5V: ±30%或-40%~+30% C0G:within ±7.5% or ±0.75pF, whichever is larger X7R/X6S/X5R: within ±25% Y5V:within ±30%或-40%~+30% | |
| | | DF | 初始值的2倍以下 Not more than 2 times of initial value | |
| | | IR | Ri > 500MΩ或25Ω·F(☆为5Ω·F), 取较小值 Ri > 500MΩ或25Ω·F(5Ω·F of ☆), whichever is smaller | |
| *14 | 耐久性 Life Test | 外观 Appearance | 无明显可见损伤 No remarkable visual damage | 温度测试: 上限类别温度±3℃ 测试电压: U _R < 100V 150% 100V ≤ U _R < 1000V 120% U _R ≥ 1000V 100% 测试时间: 1000小时 Test temperature:Max.Operating Temp. ±3℃ Voltage: U _R < 100V 150% 100V ≤ U _R < 1000V 120% U _R ≥ 1000V 100% Testing time: 1000hrs |
| | | 容量变化 Cap change | C0G: ±3%或±0.5pF,取较大值 X7R/X6S/X5R: ±25% Y5V: ±30%或-40%~+30% C0G:within ±3% or ±0.5pF, whichever is larger X7R/X6S/X5R: within ±25% Y5V:within ±30%或-40%~+30% | |
| | | DF | 初始值的2倍以下 Not more than 2 times of initial value | |
| | | IR | Ri > 1GΩ或50Ω·F(☆为10Ω·F), 取较小值 Ri > 1GΩ或50Ω·F(10Ω·F of ☆), whichever is smaller | |

注:

*A.3.7.11.12.13.14项需对II类电容器做预处理(将电容器在160℃下热处理1小时),然后在标准大气条件下恢复48±4小时,再测量初始值;

B.3.11.12.13.14项实验后在室温下放置24±2(C0G)或48±4(X7R、X6S、X5R、Y5V)小时以后再测量;

C.3.11.12.13.14项电性能测量的环境条件,温度:25℃±2℃ 相对湿度:25%~80%RH。

☆ ■ 100V:X7R

■ 50V:0402>103; 0603≥105;0805≥105;1206≥475;1210≥475

■ 25V:0201≥104;0402≥224 0603≥225; 0805≥225;1206≥106;1210≥106;01005(X6S/X5R)

■ 16V: 0201≥104;0402≥224;0603≥105; 0805≥225;1206≥106;1210≥476; 01005(X6S/X5R)

■ 10V: 0201≥473;0402≥474;0603≥474; 0805≥225;1206≥475;1210≥476; 01005(X6S/X5R)

■ ≤6.3V Class II; 01005(X6S/X5R)

Note:

A.3.7.11.12.13.14Item need to do the pretreatment of class II type capacitor(Perform a heat treatment at 160℃ for 1 hour),

Then recovery the capacitor at standard pressure conditions for 48±4 hours,Perform the initial measurement

B.3.11.12.13.14Item end of experiment Measurement to be made after being kept at room temperature for 24±2(C0G) or

48±4(X7R、X6S、X5R、Y5V)hrs.

C.3.11.12.13.14Item environmental conditions for electrical performance measurement, Temperature: 25℃±2℃ Humidity:

25%~80%RH

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