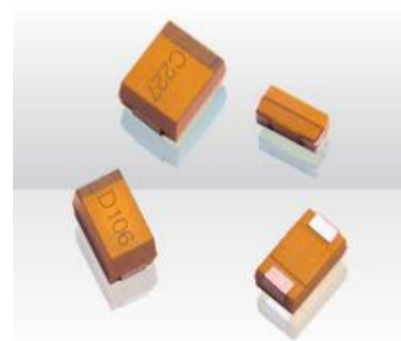


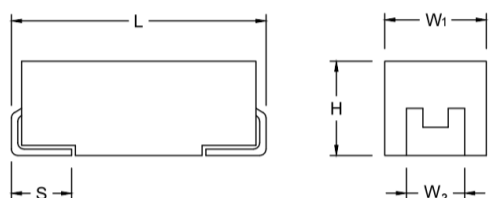
## CA45 常规片式钽电容器

### 产品特性

- 环氧树脂模压封装，片状，易于集成，有极性
- 尺寸小，重量轻，电性能和存储性能稳定，长工作寿命，高可靠性；
- 典型应用包括在工业和汽车的终端去耦和滤波应用，如 DC/DC 直流转换器，便携电子设备，通讯电子设备以及控制单元等；
- 执行标准：QJ/PWV109-2003；



### 外形尺寸 (mm)



| Case Code | EIA Code | EIA Metric | L         | W <sub>1</sub> | H         | W <sub>2</sub> | S         |
|-----------|----------|------------|-----------|----------------|-----------|----------------|-----------|
| A         | 1206     | 3216-16    | 3.20±0.20 | 1.60±0.20      | 1.60±0.20 | 0.80±0.20      | 1.20±0.20 |
| B         | 1210     | 3528-19    | 3.50±0.20 | 2.80±0.20      | 1.90±0.20 | 0.80±0.20      | 2.20±0.20 |
| C         | 2312     | 6032-25    | 6.00±0.20 | 3.20±0.20      | 2.50±0.20 | 1.30±0.20      | 2.20±0.20 |
| D         | 2917     | 7343-28    | 7.30±0.20 | 4.30±0.20      | 2.80±0.20 | 1.30±0.20      | 2.40±0.20 |
| E         | 2917     | 7343-43    | 7.30±0.40 | 4.30±0.40      | 4.10±0.40 | 1.30±0.20      | 2.40±0.20 |
| V         | 2924     | 7361-36    | 7.30±0.40 | 6.10±0.40      | 3.60±0.40 | 1.35±0.20      | 3.00±0.20 |
| W         | 2924     | 7361-41    | 7.30±0.40 | 6.10±0.40      | 4.10±0.40 | 1.35±0.20      | 3.00±0.20 |
| G         | 3329     | 8575-45    | 8.50±0.40 | 7.50±0.40      | 4.50±0.40 | 1.80±0.20      | 4.50±0.20 |
| S         | 4335     | 11090-45   | 11.0±0.40 | 9.00±0.40      | 4.50±0.40 | 1.50±0.20      | 7.00±0.20 |
| T         | 4349     | 110125-55  | 11.0±0.40 | 12.5±0.40      | 5.50±0.40 | 1.50±0.20      | 10.5±0.20 |

### 产品编码

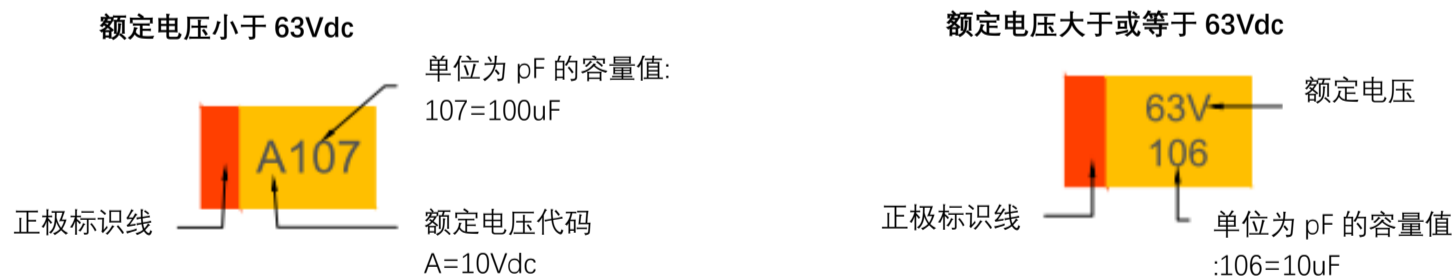
|             |     |             |   |                          |   |                                    |
|-------------|-----|-------------|---|--------------------------|---|------------------------------------|
| <b>CA45</b> | -   | <b>D</b>    | <b>010</b>  | <b>M</b>                 | <b>107</b>  | <b>T</b>                           |
|             |     |             |   |                          |   |                                    |
| 型号          | 隔离符 | 壳号尺寸<br>见上表 | 直流额定电压<br>2R5=2.5Vdc; 004=4Vdc;<br>6R3=6.3Vdc; 010=10Vdc<br>016=16Vdc; 020=20Vdc<br>025=25Vdc; 035=35Vdc<br>050=50Vdc; 063=63Vdc<br>075=75Vdc; 100=100Vdc | 容量公差<br>K=±10%<br>M=±20% | 容量代码<br>前 2 位数字为有效数字,<br>单位为 Pf,第 3 位数字为<br>指数。(即有效数字后跟<br>多少个 0) | 包装方式<br>T = 编带<br>W = 盘装<br>B = 散粒 |

### 环保声明

RoHS 声明 (6/6) 符合 2002/95/EC 指示要求，即规定使用 100%Sn 焊料，金镀层或无磁性 100% Sn 焊料



### 产品标识



### 技术特性

| 技术参数                   |         | 所有技术参数都是在 1 个大气压，+25℃ 下测定 |     |     |     |    |    |    |    |    |    |    |     |  |
|------------------------|---------|---------------------------|-----|-----|-----|----|----|----|----|----|----|----|-----|--|
| 容量范围                   |         | 0.47 μF ~ 2200 μF         |     |     |     |    |    |    |    |    |    |    |     |  |
| 容量公差                   |         | ±10%; ±20%;               |     |     |     |    |    |    |    |    |    |    |     |  |
| 额定电压 (V <sub>R</sub> ) | ≤+85℃:  | 2.5                       | 4   | 6.3 | 10  | 16 | 20 | 25 | 35 | 50 | 63 | 75 | 100 |  |
| 类别电压 (V <sub>C</sub> ) | ≤+125℃: | 1.7                       | 2.7 | 4   | 6.3 | 10 | 15 | 17 | 23 | 33 | 40 | 50 | 63  |  |
| 浪涌电压 (V <sub>S</sub> ) | ≤+85℃:  | 3.3                       | 5.2 | 8   | 13  | 20 | 26 | 32 | 46 | 65 | 82 | 97 | 130 |  |
| 浪涌电压 (V <sub>S</sub> ) | ≤+125℃: | 2.2                       | 3.4 | 5   | 8   | 13 | 16 | 20 | 28 | 40 | 50 | 60 | 80  |  |
| 温度范围                   |         | -55℃ to +125℃             |     |     |     |    |    |    |    |    |    |    |     |  |
| 引出镀层                   |         | 锡镀层 (标准), 金镀层或锡铅镀层要另外提要求  |     |     |     |    |    |    |    |    |    |    |     |  |

产品规格壳号对照表  
(壳号代码)

| 额定电压 (V)  | 2.5   | 4     | 6.3     | 10    | 16    | 20    | 25    | 35    | 50    | 63    |
|-----------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|
| 标称容量 (μF) | 壳号代码  |       |         |       |       |       |       |       |       |       |
| 0.47      |       |       |         |       |       |       |       | A     | A     |       |
| 0.68      |       |       |         |       |       |       |       | A     | A     |       |
| 1         |       |       |         |       |       |       |       | A/B   | A/B   | C     |
| 1.5       |       |       |         |       |       |       |       | A/B   | B/C   | D     |
| 2.2       |       |       |         |       |       |       | A     | A/B   | B/C/D | D     |
| 3.3       |       |       |         |       |       | A     | A/B/C | B/C   | C/D   | D     |
| 4.7       |       |       |         |       |       | A     | A/B/C | B/C/D | C/D   | E     |
| 6.8       |       |       |         |       | A     | A/B/C | B/C/D | B/C/D | C/D/E | E     |
| 10        |       |       |         | A     | A/B   | A/B/C | B/C/D | C/D/E | D/E/V | E/W   |
| 15        |       |       |         | A     | A/B/C | B/C/D | C/D   | C/D/E | D/E/V | E/V/W |
| 22        |       |       | A       | A/B   | A/B/C | B/C/D | C/D   | C/D/E | E/V   | V/W/G |
| 33        |       |       | A       | A/B/C | B/C/D | C/D   | D/E   | D/E   | W/G   | T     |
| 47        |       | A     | A/B     | A/B/C | C/D   | C/D/E | D/E   | D/E/V | S/T   | T     |
| 68        |       | A     | A/B/C   | B/C/D | C/D   | C/D/E | D/E   | E/V   | T     | T     |
| 100       |       | A/B   | A/B/C   | B/C/D | C/D/E | D/E/V | E/V/W | G/S/T | T     |       |
| 150       |       | B/C/D | B/C/D   | C/D/E | D/E/V | D/E/V | E/V   | T     |       |       |
| 220       |       | B/C/D | B/C/D/E | C/D/E | D/E/V | E/V/W | G/S   |       |       |       |
| 330       |       | C/D   | C/D/E   | D/E/V | E/V/W | E/V   | T     |       |       |       |
| 470       |       | C/D/E | D/E/V   | E/V   | E/W   | T     |       |       |       |       |
| 680       | C/D/E | D/E   | E/V/W   | E/S/T | T     |       |       |       |       |       |
| 1000      | D/E   | D/E/V | E/V/G   | T     |       |       |       |       |       |       |
| 1500      | D/E/V | E/V   | T       |       |       |       |       |       |       |       |
| 2200      | V     |       |         |       |       |       |       |       |       |       |

产品编码及其参数规格

| 产品编码           | 额定电压 (V) | 标称容量 (μF) | 壳号 | 额定温度 (°C) | 类别电压 (V) | 类别温度 (°C) | 漏电流最大值(μA) @25°C | 损耗最大值(%) @25°C 100Hz | ESR 最大值 (Ω) @25°C 100KHz | 允许纹波电流最大值 @100KHz IRMS (A) |       |       |
|----------------|----------|-----------|----|-----------|----------|-----------|------------------|----------------------|--------------------------|----------------------------|-------|-------|
|                |          |           |    |           |          |           |                  |                      |                          | 25°C                       | 85°C  | 125°C |
| CA45-C2R5#687T | 2.5      | 680       | C  | 85        | 1.7      | 125       | 17.0             | 18                   | 0.2                      | 0.671                      | 0.402 | 0.268 |
| CA45-D2R5#687T | 2.5      | 680       | D  | 85        | 1.7      | 125       | 17.0             | 16                   | 0.2                      | 0.725                      | 0.435 | 0.290 |
| CA45-E2R5#687T | 2.5      | 680       | E  | 85        | 1.7      | 125       | 17.0             | 10                   | 0.2                      | 0.791                      | 0.474 | 0.316 |
| CA45-D2R5#108T | 2.5      | 1000      | D  | 85        | 1.7      | 125       | 25.0             | 20                   | 0.2                      | 0.725                      | 0.435 | 0.290 |
| CA45-E2R5#108T | 2.5      | 1000      | E  | 85        | 1.7      | 125       | 25.0             | 14                   | 0.2                      | 0.791                      | 0.474 | 0.316 |
| CA45-D2R5#158T | 2.5      | 1500      | D  | 85        | 1.7      | 125       | 37.5             | 60                   | 0.2                      | 0.725                      | 0.435 | 0.290 |
| CA45-E2R5#158T | 2.5      | 1500      | E  | 85        | 1.7      | 125       | 37.5             | 20                   | 0.2                      | 0.791                      | 0.474 | 0.316 |
| CA45-V2R5#158T | 2.5      | 1500      | V  | 85        | 1.7      | 125       | 37.5             | 20                   | 0.2                      | 0.866                      | 0.520 | 0.346 |
| CA45-V2R5#228T | 2.5      | 2200      | V  | 85        | 1.7      | 125       | 55.0             | 50                   | 0.2                      | 0.866                      | 0.520 | 0.346 |
| CA45-A004#476T | 4        | 47        | A  | 85        | 2.7      | 125       | 1.9              | 11                   | 8                        | 0.090                      | 0.054 | 0.036 |
| CA45-A004#686T | 4        | 68        | A  | 85        | 2.7      | 125       | 2.7              | 24                   | 2.5                      | 0.161                      | 0.097 | 0.064 |
| CA45-A004#107T | 4        | 100       | A  | 85        | 2.7      | 125       | 4.0              | 30                   | 2                        | 0.180                      | 0.108 | 0.072 |
| CA45-B004#107T | 4        | 100       | B  | 85        | 2.7      | 125       | 4.0              | 12                   | 0.9                      | 0.289                      | 0.173 | 0.115 |
| CA45-B004#157T | 4        | 150       | B  | 85        | 2.7      | 125       | 6.0              | 10                   | 1.5                      | 0.224                      | 0.134 | 0.089 |
| CA45-C004#157T | 4        | 150       | C  | 85        | 2.7      | 125       | 6.0              | 6                    | 0.3                      | 0.548                      | 0.329 | 0.219 |
| CA45-D004#157T | 4        | 150       | D  | 85        | 2.7      | 125       | 6.0              | 8                    | 0.8                      | 0.362                      | 0.217 | 0.145 |
| CA45-B004#227T | 4        | 220       | B  | 85        | 2.7      | 125       | 8.8              | 18                   | 1                        | 0.274                      | 0.164 | 0.110 |
| CA45-C004#227T | 4        | 220       | C  | 85        | 2.7      | 125       | 8.8              | 12                   | 1.1                      | 0.286                      | 0.172 | 0.114 |
| CA45-D004#227T | 4        | 220       | D  | 85        | 2.7      | 125       | 8.8              | 8                    | 0.8                      | 0.362                      | 0.217 | 0.145 |
| CA45-C004#337T | 4        | 330       | C  | 85        | 2.7      | 125       | 13.2             | 10                   | 0.9                      | 0.316                      | 0.190 | 0.126 |
| CA45-D004#337T | 4        | 330       | D  | 85        | 2.7      | 125       | 13.2             | 8                    | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-C004#477T | 4        | 470       | C  | 85        | 2.7      | 125       | 18.8             | 14                   | 0.5                      | 0.424                      | 0.255 | 0.170 |
| CA45-D004#477T | 4        | 470       | D  | 85        | 2.7      | 125       | 18.8             | 8                    | 0.5                      | 0.458                      | 0.275 | 0.183 |
| CA45-E004#477T | 4        | 470       | E  | 85        | 2.7      | 125       | 18.8             | 10                   | 0.5                      | 0.500                      | 0.300 | 0.200 |
| CA45-D004#687T | 4        | 680       | D  | 85        | 2.7      | 125       | 27.2             | 12                   | 0.5                      | 0.458                      | 0.275 | 0.183 |
| CA45-E004#687T | 4        | 680       | E  | 85        | 2.7      | 125       | 27.2             | 14                   | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-D004#108T | 4        | 1000      | D  | 85        | 2.7      | 125       | 40.0             | 60                   | 0.3                      | 0.592                      | 0.355 | 0.237 |
| CA45-E004#108T | 4        | 1000      | E  | 85        | 2.7      | 125       | 40.0             | 14                   | 0.3                      | 0.645                      | 0.387 | 0.258 |
| CA45-V004#108T | 4        | 1000      | V  | 85        | 2.7      | 125       | 40.0             | 12                   | 0.2                      | 0.866                      | 0.520 | 0.346 |
| CA45-E004#158T | 4        | 1500      | E  | 85        | 2.7      | 125       | 60.0             | 30                   | 0.2                      | 0.791                      | 0.474 | 0.316 |
| CA45-V004#158T | 4        | 1500      | V  | 85        | 2.7      | 125       | 60.0             | 30                   | 0.2                      | 0.866                      | 0.520 | 0.346 |
| CA45-A6R3#226T | 6.3      | 22        | A  | 85        | 4        | 125       | 1.4              | 6                    | 3                        | 0.147                      | 0.088 | 0.059 |
| CA45-A6R3#336T | 6.3      | 33        | A  | 85        | 4        | 125       | 2.1              | 8                    | 2.2                      | 0.172                      | 0.103 | 0.069 |
| CA45-A6R3#476T | 6.3      | 47        | A  | 85        | 4        | 125       | 3.0              | 12                   | 2.5                      | 0.161                      | 0.097 | 0.064 |
| CA45-B6R3#476T | 6.3      | 47        | B  | 85        | 4        | 125       | 3.0              | 6                    | 1                        | 0.274                      | 0.164 | 0.110 |
| CA45-A6R3#686T | 6.3      | 68        | A  | 85        | 4        | 125       | 4.3              | 20                   | 4                        | 0.127                      | 0.076 | 0.051 |
| CA45-B6R3#686T | 6.3      | 68        | B  | 85        | 4        | 125       | 4.3              | 8                    | 0.9                      | 0.289                      | 0.173 | 0.115 |
| CA45-C6R3#686T | 6.3      | 68        | C  | 85        | 4        | 125       | 4.3              | 6                    | 1.2                      | 0.274                      | 0.164 | 0.110 |
| CA45-A6R3#107T | 6.3      | 100       | A  | 85        | 4        | 125       | 6.3              | 35                   | 2                        | 0.180                      | 0.108 | 0.072 |
| CA45-B6R3#107T | 6.3      | 100       | B  | 85        | 4        | 125       | 6.3              | 12                   | 1.7                      | 0.210                      | 0.126 | 0.084 |
| CA45-C6R3#107T | 6.3      | 100       | C  | 85        | 4        | 125       | 6.3              | 8                    | 0.9                      | 0.316                      | 0.190 | 0.126 |
| CA45-B6R3#157T | 6.3      | 150       | B  | 85        | 4        | 125       | 9.5              | 10                   | 1.2                      | 0.250                      | 0.150 | 0.100 |
| CA45-C6R3#157T | 6.3      | 150       | C  | 85        | 4        | 125       | 9.5              | 8                    | 1.2                      | 0.274                      | 0.164 | 0.110 |
| CA45-D6R3#157T | 6.3      | 150       | D  | 85        | 4        | 125       | 9.5              | 8                    | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-B6R3#227T | 6.3      | 220       | B  | 85        | 4        | 125       | 13.9             | 30                   | 1.2                      | 0.250                      | 0.150 | 0.100 |
| CA45-C6R3#227T | 6.3      | 220       | C  | 85        | 4        | 125       | 13.9             | 10                   | 0.7                      | 0.359                      | 0.215 | 0.143 |
| CA45-D6R3#227T | 6.3      | 220       | D  | 85        | 4        | 125       | 13.9             | 8                    | 0.4                      | 0.512                      | 0.307 | 0.205 |
| CA45-E6R3#227T | 6.3      | 220       | E  | 85        | 4        | 125       | 13.9             | 8                    | 0.4                      | 0.559                      | 0.335 | 0.224 |
| CA45-C6R3#337T | 6.3      | 330       | C  | 85        | 4        | 125       | 20.8             | 12                   | 0.5                      | 0.424                      | 0.255 | 0.170 |
| CA45-D6R3#337T | 6.3      | 330       | D  | 85        | 4        | 125       | 20.8             | 8                    | 0.4                      | 0.512                      | 0.307 | 0.205 |
| CA45-E6R3#337T | 6.3      | 330       | E  | 85        | 4        | 125       | 20.8             | 8                    | 0.4                      | 0.559                      | 0.335 | 0.224 |
| CA45-D6R3#477T | 6.3      | 470       | D  | 85        | 4        | 125       | 29.6             | 12                   | 0.3                      | 0.592                      | 0.355 | 0.237 |
| CA45-E6R3#477T | 6.3      | 470       | E  | 85        | 4        | 125       | 29.6             | 10                   | 0.4                      | 0.559                      | 0.335 | 0.224 |
| CA45-V6R3#477T | 6.3      | 470       | V  | 85        | 4        | 125       | 29.6             | 10                   | 0.4                      | 0.612                      | 0.367 | 0.245 |

- #为替换字符用以表示容量允差，填入 K 表示±10%，M 表示±20%；
- 请不要用万用表测量；
- 容量和损耗测量条件：100Hz, U<sub>r</sub>=2.2~1.0V, U<sub>~</sub>=1.0~0.5V, Frequency=100Hz, 串联方式测量
- 环境温度高于+85°C需要降额电压使用。(漏电流参数为通电 5 分钟后读数)。
- 特殊尺寸或要求请联系我们。

产品编码及其参数规格

| 产品编码           | 额定电压 (V) | 标称容量 (μF) | 壳号 | 额定温度 (°C) | 类别电压 (V) | 类别温度 (°C) | 漏电流 最大值(μA) @25°C | 损耗 最大值(%) @25°C 100Hz | ESR 最大值 (Ω) @25°C 100KHz | 允许纹波电流最大值 @100KHz IRMS (A) |       |       |
|----------------|----------|-----------|----|-----------|----------|-----------|-------------------|-----------------------|--------------------------|----------------------------|-------|-------|
|                |          |           |    |           |          |           |                   |                       |                          | 25°C                       | 85°C  | 125°C |
| CA45-E6R3#687T | 6.3      | 680       | E  | 85        | 4        | 125       | 42.8              | 10                    | 0.5                      | 0.500                      | 0.300 | 0.200 |
| CA45-V6R3#687T | 6.3      | 680       | V  | 85        | 4        | 125       | 42.8              | 10                    | 0.5                      | 0.548                      | 0.329 | 0.219 |
| CA45-W6R3#687T | 6.3      | 680       | W  | 85        | 4        | 125       | 42.8              | 12                    | 0.2                      | 1.000                      | 0.600 | 0.400 |
| CA45-E6R3#108T | 6.3      | 1000      | E  | 85        | 4        | 125       | 63.0              | 20                    | 0.2                      | 0.791                      | 0.474 | 0.316 |
| CA45-V6R3#108T | 6.3      | 1000      | V  | 85        | 4        | 125       | 63.0              | 15                    | 0.2                      | 0.866                      | 0.520 | 0.346 |
| CA45-G6R3#108W | 6.3      | 1000      | G  | 85        | 4        | 125       | 63.0              | 16                    | 0.2                      | 1.095                      | 0.657 | 0.438 |
| CA45-T6R3#158W | 6.3      | 1500      | T  | 85        | 4        | 125       | 94.5              | 16                    | 0.2                      | 1.285                      | 0.771 | 0.514 |
| CA45-A010#106T | 10       | 10        | A  | 85        | 6.3      | 125       | 1.0               | 6                     | 3                        | 0.147                      | 0.088 | 0.059 |
| CA45-A010#156T | 10       | 15        | A  | 85        | 6.3      | 125       | 1.5               | 6                     | 3.2                      | 0.143                      | 0.086 | 0.057 |
| CA45-A010#226T | 10       | 22        | A  | 85        | 6.3      | 125       | 2.2               | 10                    | 3                        | 0.147                      | 0.088 | 0.059 |
| CA45-B010#226T | 10       | 22        | B  | 85        | 6.3      | 125       | 2.2               | 6                     | 1.9                      | 0.199                      | 0.119 | 0.079 |
| CA45-A010#336T | 10       | 33        | A  | 85        | 6.3      | 125       | 3.3               | 15                    | 1.7                      | 0.196                      | 0.117 | 0.078 |
| CA45-B010#336T | 10       | 33        | B  | 85        | 6.3      | 125       | 3.3               | 6                     | 1.8                      | 0.204                      | 0.122 | 0.082 |
| CA45-C010#336T | 10       | 33        | C  | 85        | 6.3      | 125       | 3.3               | 6                     | 1.5                      | 0.245                      | 0.147 | 0.098 |
| CA45-A010#476T | 10       | 47        | A  | 85        | 6.3      | 125       | 4.7               | 40                    | 2                        | 0.180                      | 0.108 | 0.072 |
| CA45-B010#476T | 10       | 47        | B  | 85        | 6.3      | 125       | 4.7               | 8                     | 1                        | 0.274                      | 0.164 | 0.110 |
| CA45-C010#476T | 10       | 47        | C  | 85        | 6.3      | 125       | 4.7               | 6                     | 0.9                      | 0.316                      | 0.190 | 0.126 |
| CA45-B010#686T | 10       | 68        | B  | 85        | 6.3      | 125       | 6.8               | 6                     | 1.4                      | 0.231                      | 0.139 | 0.093 |
| CA45-C010#686T | 10       | 68        | C  | 85        | 6.3      | 125       | 6.8               | 6                     | 0.8                      | 0.335                      | 0.201 | 0.134 |
| CA45-D010#686T | 10       | 68        | D  | 85        | 6.3      | 125       | 6.8               | 6                     | 0.8                      | 0.362                      | 0.217 | 0.145 |
| CA45-B010#107T | 10       | 100       | B  | 85        | 6.3      | 125       | 10.0              | 18                    | 1.4                      | 0.231                      | 0.139 | 0.093 |
| CA45-C010#107T | 10       | 100       | C  | 85        | 6.3      | 125       | 10.0              | 8                     | 1                        | 0.300                      | 0.180 | 0.120 |
| CA45-D010#107T | 10       | 100       | D  | 85        | 6.3      | 125       | 10.0              | 8                     | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-C010#157T | 10       | 150       | C  | 85        | 6.3      | 125       | 15.0              | 8                     | 0.9                      | 0.316                      | 0.190 | 0.126 |
| CA45-D010#157T | 10       | 150       | D  | 85        | 6.3      | 125       | 15.0              | 8                     | 0.6                      | 0.418                      | 0.251 | 0.167 |
| CA45-E010#157T | 10       | 150       | E  | 85        | 6.3      | 125       | 15.0              | 8                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-C010#227T | 10       | 220       | C  | 85        | 6.3      | 125       | 22.0              | 16                    | 0.9                      | 0.316                      | 0.190 | 0.126 |
| CA45-D010#227T | 10       | 220       | D  | 85        | 6.3      | 125       | 22.0              | 8                     | 0.5                      | 0.458                      | 0.275 | 0.183 |
| CA45-E010#227T | 10       | 220       | E  | 85        | 6.3      | 125       | 22.0              | 8                     | 0.5                      | 0.500                      | 0.300 | 0.200 |
| CA45-D010#337T | 10       | 330       | D  | 85        | 6.3      | 125       | 33.0              | 10                    | 0.5                      | 0.458                      | 0.275 | 0.183 |
| CA45-E010#337T | 10       | 330       | E  | 85        | 6.3      | 125       | 33.0              | 8                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-V010#337T | 10       | 330       | V  | 85        | 6.3      | 125       | 33.0              | 10                    | 0.5                      | 0.548                      | 0.329 | 0.219 |
| CA45-E010#477T | 10       | 470       | E  | 85        | 6.3      | 125       | 47.0              | 10                    | 0.5                      | 0.500                      | 0.300 | 0.200 |
| CA45-V010#477T | 10       | 470       | V  | 85        | 6.3      | 125       | 47.0              | 10                    | 0.2                      | 0.866                      | 0.520 | 0.346 |
| CA45-E010#687T | 10       | 680       | E  | 85        | 6.3      | 125       | 68.0              | 14                    | 0.5                      | 0.500                      | 0.300 | 0.200 |
| CA45-S010#687W | 10       | 680       | S  | 85        | 6.3      | 125       | 68.0              | 12                    | 0.2                      | 1.183                      | 0.710 | 0.473 |
| CA45-T010#687W | 10       | 680       | T  | 85        | 6.3      | 125       | 68.0              | 12                    | 0.2                      | 1.285                      | 0.771 | 0.514 |
| CA45-T010#108W | 10       | 1000      | T  | 85        | 6.3      | 125       | 100.0             | 16                    | 0.2                      | 1.285                      | 0.771 | 0.514 |
| CA45-A016#685T | 16       | 6.8       | A  | 85        | 10       | 125       | 1.1               | 6                     | 3.5                      | 0.136                      | 0.082 | 0.055 |
| CA45-A016#106T | 16       | 10        | A  | 85        | 10       | 125       | 1.6               | 8                     | 3                        | 0.147                      | 0.088 | 0.059 |
| CA45-B016#106T | 16       | 10        | B  | 85        | 10       | 125       | 1.6               | 6                     | 2.5                      | 0.173                      | 0.104 | 0.069 |
| CA45-A016#156T | 16       | 15        | A  | 85        | 10       | 125       | 2.4               | 6                     | 2                        | 0.180                      | 0.108 | 0.072 |
| CA45-B016#156T | 16       | 15        | B  | 85        | 10       | 125       | 2.4               | 6                     | 2                        | 0.194                      | 0.116 | 0.077 |
| CA45-C016#156T | 16       | 15        | C  | 85        | 10       | 125       | 2.4               | 6                     | 1.8                      | 0.224                      | 0.134 | 0.089 |
| CA45-A016#226T | 16       | 22        | A  | 85        | 10       | 125       | 3.5               | 15                    | 3                        | 0.147                      | 0.088 | 0.059 |
| CA45-B016#226T | 16       | 22        | B  | 85        | 10       | 125       | 3.5               | 6                     | 2.2                      | 0.185                      | 0.111 | 0.074 |
| CA45-C016#226T | 16       | 22        | C  | 85        | 10       | 125       | 3.5               | 6                     | 1.5                      | 0.245                      | 0.147 | 0.098 |
| CA45-B016#336T | 16       | 33        | B  | 85        | 10       | 125       | 5.3               | 8                     | 2                        | 0.194                      | 0.116 | 0.077 |
| CA45-C016#336T | 16       | 33        | C  | 85        | 10       | 125       | 5.3               | 6                     | 1.2                      | 0.274                      | 0.164 | 0.110 |
| CA45-D016#336T | 16       | 33        | D  | 85        | 10       | 125       | 5.3               | 6                     | 0.8                      | 0.362                      | 0.217 | 0.145 |
| CA45-C016#476T | 16       | 47        | C  | 85        | 10       | 125       | 7.5               | 6                     | 1                        | 0.300                      | 0.180 | 0.120 |
| CA45-D016#476T | 16       | 47        | D  | 85        | 10       | 125       | 7.5               | 6                     | 0.9                      | 0.342                      | 0.205 | 0.137 |
| CA45-C016#686T | 16       | 68        | C  | 85        | 10       | 125       | 10.9              | 6                     | 1.2                      | 0.274                      | 0.164 | 0.110 |
| CA45-D016#686T | 16       | 68        | D  | 85        | 10       | 125       | 10.9              | 6                     | 0.6                      | 0.418                      | 0.251 | 0.167 |

- #为替换字符用以表示容量允差，填入K表示±10%，M表示±20%；
- 请不要用万用表测量；
- 容量和损耗测量条件：100Hz，U<sub>DC</sub>=2.2V-1.0V，U<sub>AC</sub>=1.0V-0.5V，Frequency=100Hz，串联方式测量
- 环境温度高于+85°C需要降额电压使用。（漏电流参数为通电5分钟后读数）。
- 特殊尺寸或要求请联系我们。

产品编码及其参数规格

| 产品编码           | 额定电压 (V) | 标称容量 (μF) | 壳号 | 额定温度 (°C) | 类别电压 (V) | 类别温度 (°C) | 漏电流 最大值(μA) @25°C | 损耗 最大值(%) @25°C 100Hz | ESR 最大值 (Ω) @25°C 100KHz | 允许纹波电流最大值 @100KHz IRMS (A) |       |       |
|----------------|----------|-----------|----|-----------|----------|-----------|-------------------|-----------------------|--------------------------|----------------------------|-------|-------|
|                |          |           |    |           |          |           |                   |                       |                          | 25°C                       | 85°C  | 125°C |
| CA45-C016#107T | 16       | 100       | C  | 85        | 10       | 125       | 16.0              | 8                     | 1                        | 0.300                      | 0.180 | 0.120 |
| CA45-D016#107T | 16       | 100       | D  | 85        | 10       | 125       | 16.0              | 6                     | 0.6                      | 0.418                      | 0.251 | 0.167 |
| CA45-E016#107T | 16       | 100       | E  | 85        | 10       | 125       | 16.0              | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-D016#157T | 16       | 150       | D  | 85        | 10       | 125       | 24.0              | 6                     | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-E016#157T | 16       | 150       | E  | 85        | 10       | 125       | 24.0              | 8                     | 0.5                      | 0.500                      | 0.300 | 0.200 |
| CA45-V016#157T | 16       | 150       | V  | 85        | 10       | 125       | 24.0              | 8                     | 0.5                      | 0.548                      | 0.329 | 0.219 |
| CA45-D016#227T | 16       | 220       | D  | 85        | 10       | 125       | 35.2              | 15                    | 0.9                      | 0.342                      | 0.205 | 0.137 |
| CA45-E016#227T | 16       | 220       | E  | 85        | 10       | 125       | 35.2              | 10                    | 0.5                      | 0.500                      | 0.300 | 0.200 |
| CA45-V016#227T | 16       | 220       | V  | 85        | 10       | 125       | 35.2              | 8                     | 0.5                      | 0.548                      | 0.329 | 0.219 |
| CA45-E016#337T | 16       | 330       | E  | 85        | 10       | 125       | 52.8              | 12                    | 0.8                      | 0.395                      | 0.237 | 0.158 |
| CA45-V016#337T | 16       | 330       | V  | 85        | 10       | 125       | 52.8              | 12                    | 0.8                      | 0.433                      | 0.260 | 0.173 |
| CA45-W016#337T | 16       | 330       | W  | 85        | 10       | 125       | 52.8              | 10                    | 0.2                      | 1.000                      | 0.600 | 0.400 |
| CA45-E016#477T | 16       | 470       | E  | 85        | 10       | 125       | 75.2              | 16                    | 0.8                      | 0.395                      | 0.237 | 0.158 |
| CA45-W016#477T | 16       | 470       | W  | 85        | 10       | 125       | 75.2              | 12                    | 0.2                      | 1.000                      | 0.600 | 0.400 |
| CA45-T016#687W | 16       | 680       | T  | 85        | 10       | 125       | 108.8             | 12                    | 0.1                      | 1.817                      | 1.090 | 0.727 |
| CA45-A020#335T | 20       | 3.3       | A  | 85        | 15       | 125       | 0.7               | 4                     | 4.5                      | 0.120                      | 0.072 | 0.048 |
| CA45-A020#475T | 20       | 4.7       | A  | 85        | 15       | 125       | 0.9               | 6                     | 3                        | 0.147                      | 0.088 | 0.059 |
| CA45-A020#685T | 20       | 6.8       | A  | 85        | 15       | 125       | 1.4               | 6                     | 2.4                      | 0.165                      | 0.099 | 0.066 |
| CA45-B020#685T | 20       | 6.8       | B  | 85        | 15       | 125       | 1.4               | 6                     | 2.4                      | 0.177                      | 0.106 | 0.071 |
| CA45-C020#685T | 20       | 6.8       | C  | 85        | 15       | 125       | 1.4               | 6                     | 1.9                      | 0.218                      | 0.131 | 0.087 |
| CA45-A020#106T | 20       | 10        | A  | 85        | 15       | 125       | 2.0               | 8                     | 5                        | 0.114                      | 0.068 | 0.046 |
| CA45-B020#106T | 20       | 10        | B  | 85        | 15       | 125       | 2.0               | 6                     | 2                        | 0.194                      | 0.116 | 0.077 |
| CA45-C020#106T | 20       | 10        | C  | 85        | 15       | 125       | 2.0               | 6                     | 1.2                      | 0.274                      | 0.164 | 0.110 |
| CA45-B020#156T | 20       | 15        | B  | 85        | 15       | 125       | 3.0               | 6                     | 2                        | 0.194                      | 0.116 | 0.077 |
| CA45-C020#156T | 20       | 15        | C  | 85        | 15       | 125       | 3.0               | 6                     | 1.7                      | 0.230                      | 0.138 | 0.092 |
| CA45-D020#156T | 20       | 15        | D  | 85        | 15       | 125       | 3.0               | 6                     | 1                        | 0.324                      | 0.194 | 0.130 |
| CA45-B020#226T | 20       | 22        | B  | 85        | 15       | 125       | 4.4               | 6                     | 1.8                      | 0.204                      | 0.122 | 0.082 |
| CA45-C020#226T | 20       | 22        | C  | 85        | 15       | 125       | 4.4               | 6                     | 1.6                      | 0.237                      | 0.142 | 0.095 |
| CA45-D020#226T | 20       | 22        | D  | 85        | 15       | 125       | 4.4               | 6                     | 0.8                      | 0.362                      | 0.217 | 0.145 |
| CA45-C020#336T | 20       | 33        | C  | 85        | 15       | 125       | 6.6               | 6                     | 1.2                      | 0.274                      | 0.164 | 0.110 |
| CA45-D020#336T | 20       | 33        | D  | 85        | 15       | 125       | 6.6               | 6                     | 0.9                      | 0.342                      | 0.205 | 0.137 |
| CA45-C020#476T | 20       | 47        | C  | 85        | 15       | 125       | 9.4               | 6                     | 0.9                      | 0.316                      | 0.190 | 0.126 |
| CA45-D020#476T | 20       | 47        | D  | 85        | 15       | 125       | 9.4               | 6                     | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-E020#476T | 20       | 47        | E  | 85        | 15       | 125       | 9.4               | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-C020#686T | 20       | 68        | C  | 85        | 15       | 125       | 13.6              | 8                     | 0.5                      | 0.424                      | 0.255 | 0.170 |
| CA45-D020#686T | 20       | 68        | D  | 85        | 15       | 125       | 13.6              | 6                     | 0.4                      | 0.512                      | 0.307 | 0.205 |
| CA45-E020#686T | 20       | 68        | E  | 85        | 15       | 125       | 13.6              | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-D020#107T | 20       | 100       | D  | 85        | 15       | 125       | 20.0              | 8                     | 0.5                      | 0.458                      | 0.275 | 0.183 |
| CA45-E020#107T | 20       | 100       | E  | 85        | 15       | 125       | 20.0              | 6                     | 0.4                      | 0.559                      | 0.335 | 0.224 |
| CA45-V020#107T | 20       | 100       | V  | 85        | 15       | 125       | 20.0              | 8                     | 0.5                      | 0.548                      | 0.329 | 0.219 |
| CA45-D020#157T | 20       | 150       | D  | 85        | 15       | 125       | 30.0              | 10                    | 0.9                      | 0.342                      | 0.205 | 0.137 |
| CA45-E020#157T | 20       | 150       | E  | 85        | 15       | 125       | 30.0              | 8                     | 0.3                      | 0.645                      | 0.387 | 0.258 |
| CA45-V020#157T | 20       | 150       | V  | 85        | 15       | 125       | 30.0              | 8                     | 0.3                      | 0.707                      | 0.424 | 0.283 |
| CA45-E020#227T | 20       | 220       | E  | 85        | 15       | 125       | 44.0              | 12                    | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-V020#227T | 20       | 220       | V  | 85        | 15       | 125       | 44.0              | 12                    | 0.9                      | 0.408                      | 0.245 | 0.163 |
| CA45-W020#227T | 20       | 220       | W  | 85        | 15       | 125       | 44.0              | 10                    | 0.2                      | 1.000                      | 0.600 | 0.400 |
| CA45-E020#337T | 20       | 330       | E  | 85        | 15       | 125       | 66.0              | 12                    | 0.8                      | 0.395                      | 0.237 | 0.158 |
| CA45-V020#337T | 20       | 330       | V  | 85        | 15       | 125       | 66.0              | 12                    | 0.8                      | 0.433                      | 0.260 | 0.173 |
| CA45-T020#477W | 20       | 470       | T  | 85        | 15       | 125       | 94.0              | 12                    | 0.2                      | 1.285                      | 0.771 | 0.514 |
| CA45-A025#225T | 25       | 2.2       | A  | 85        | 17       | 125       | 0.6               | 6                     | 6.3                      | 0.102                      | 0.061 | 0.041 |
| CA45-A025#335T | 25       | 3.3       | A  | 85        | 17       | 125       | 0.8               | 6                     | 3.7                      | 0.133                      | 0.080 | 0.053 |
| CA45-B025#335T | 25       | 3.3       | B  | 85        | 17       | 125       | 0.8               | 6                     | 3.5                      | 0.146                      | 0.088 | 0.059 |
| CA45-C025#335T | 25       | 3.3       | C  | 85        | 17       | 125       | 0.8               | 6                     | 2.5                      | 0.190                      | 0.114 | 0.076 |
| CA45-A025#475T | 25       | 4.7       | A  | 85        | 17       | 125       | 1.2               | 6                     | 3.1                      | 0.145                      | 0.087 | 0.058 |

- #为替换字符用以表示容量公差，填入K表示±10%，M表示±20%；
- 请不要用万用表测量；
- 容量和损耗测量条件：100Hz，U<sub>DC</sub>=2.2~1.0V，U<sub>AC</sub>~1.0~0.5V，Frequency=100Hz，串联方式测量
- 环境温度高于+85°C需要降额电压使用。（漏电流参数为通电5分钟后读数）。
- 特殊尺寸或要求请联系我们。

产品编码及其参数规格

| 产品编码           | 额定电压 (V) | 标称容量 (μF) | 壳号 | 额定温度 (°C) | 类别电压 (V) | 类别温度 (°C) | 漏电流 最大值(μA) @25°C | 损耗 最大值(%) @25°C 100Hz | ESR 最大值 (Ω) @25°C 100KHz | 允许纹波电流最大值 @100KHz IRMS (A) |       |       |
|----------------|----------|-----------|----|-----------|----------|-----------|-------------------|-----------------------|--------------------------|----------------------------|-------|-------|
|                |          |           |    |           |          |           |                   |                       |                          | 25°C                       | 85°C  | 125°C |
| CA45-B025#475T | 25       | 4.7       | B  | 85        | 17       | 125       | 1.2               | 6                     | 1.5                      | 0.224                      | 0.134 | 0.089 |
| CA45-C025#475T | 25       | 4.7       | C  | 85        | 17       | 125       | 1.2               | 6                     | 2.4                      | 0.194                      | 0.116 | 0.077 |
| CA45-B025#685T | 25       | 6.8       | B  | 85        | 17       | 125       | 1.7               | 6                     | 2.8                      | 0.164                      | 0.098 | 0.065 |
| CA45-C025#685T | 25       | 6.8       | C  | 85        | 17       | 125       | 1.7               | 6                     | 1.9                      | 0.218                      | 0.131 | 0.087 |
| CA45-D025#685T | 25       | 6.8       | D  | 85        | 17       | 125       | 1.7               | 6                     | 1.4                      | 0.274                      | 0.164 | 0.110 |
| CA45-B025#106T | 25       | 10        | B  | 85        | 17       | 125       | 2.5               | 6                     | 2.5                      | 0.173                      | 0.104 | 0.069 |
| CA45-C025#106T | 25       | 10        | C  | 85        | 17       | 125       | 2.5               | 6                     | 1.5                      | 0.245                      | 0.147 | 0.098 |
| CA45-D025#106T | 25       | 10        | D  | 85        | 17       | 125       | 2.5               | 6                     | 1                        | 0.324                      | 0.194 | 0.130 |
| CA45-C025#156T | 25       | 15        | C  | 85        | 17       | 125       | 3.8               | 6                     | 1.5                      | 0.245                      | 0.147 | 0.098 |
| CA45-D025#156T | 25       | 15        | D  | 85        | 17       | 125       | 3.8               | 6                     | 1                        | 0.324                      | 0.194 | 0.130 |
| CA45-C025#226T | 25       | 22        | C  | 85        | 17       | 125       | 5.5               | 6                     | 1.4                      | 0.254                      | 0.152 | 0.101 |
| CA45-D025#226T | 25       | 22        | D  | 85        | 17       | 125       | 5.5               | 6                     | 0.8                      | 0.362                      | 0.217 | 0.145 |
| CA45-D025#336T | 25       | 33        | D  | 85        | 17       | 125       | 8.3               | 6                     | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-E025#336T | 25       | 33        | E  | 85        | 17       | 125       | 8.3               | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-D025#476T | 25       | 47        | D  | 85        | 17       | 125       | 11.8              | 6                     | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-E025#476T | 25       | 47        | E  | 85        | 17       | 125       | 11.8              | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-D025#686T | 25       | 68        | D  | 85        | 17       | 125       | 17.0              | 6                     | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-E025#686T | 25       | 68        | E  | 85        | 17       | 125       | 17.0              | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-E025#107T | 25       | 100       | E  | 85        | 17       | 125       | 25.0              | 10                    | 0.3                      | 0.645                      | 0.387 | 0.258 |
| CA45-V025#107T | 25       | 100       | V  | 85        | 17       | 125       | 25.0              | 8                     | 0.3                      | 0.707                      | 0.424 | 0.283 |
| CA45-W025#107T | 25       | 100       | W  | 85        | 17       | 125       | 25.0              | 8                     | 0.25                     | 0.894                      | 0.537 | 0.358 |
| CA45-E025#157T | 25       | 150       | E  | 85        | 17       | 125       | 37.5              | 10                    | 0.8                      | 0.395                      | 0.237 | 0.158 |
| CA45-V025#157T | 25       | 150       | V  | 85        | 17       | 125       | 37.5              | 10                    | 0.4                      | 0.612                      | 0.367 | 0.245 |
| CA45-G025#227W | 25       | 220       | G  | 85        | 17       | 125       | 55.0              | 10                    | 0.2                      | 1.095                      | 0.657 | 0.438 |
| CA45-S025#227W | 25       | 220       | S  | 85        | 17       | 125       | 55.0              | 10                    | 0.2                      | 1.183                      | 0.710 | 0.473 |
| CA45-T025#337W | 25       | 330       | T  | 85        | 17       | 125       | 82.5              | 10                    | 0.2                      | 1.285                      | 0.771 | 0.514 |
| CA45-A035#474T | 35       | 0.47      | A  | 85        | 23       | 125       | 0.5               | 4                     | 12                       | 0.074                      | 0.044 | 0.029 |
| CA45-A035#684T | 35       | 0.68      | A  | 85        | 23       | 125       | 0.5               | 4                     | 8                        | 0.090                      | 0.054 | 0.036 |
| CA45-A035#105T | 35       | 1         | A  | 85        | 23       | 125       | 0.5               | 4                     | 7.5                      | 0.093                      | 0.056 | 0.037 |
| CA45-B035#105T | 35       | 1         | B  | 85        | 23       | 125       | 0.5               | 4                     | 4                        | 0.137                      | 0.082 | 0.055 |
| CA45-A035#155T | 35       | 1.5       | A  | 85        | 23       | 125       | 0.5               | 6                     | 7                        | 0.096                      | 0.058 | 0.039 |
| CA45-B035#155T | 35       | 1.5       | B  | 85        | 23       | 125       | 0.5               | 6                     | 5                        | 0.122                      | 0.073 | 0.049 |
| CA45-A035#225T | 35       | 2.2       | A  | 85        | 23       | 125       | 0.8               | 6                     | 4.5                      | 0.120                      | 0.072 | 0.048 |
| CA45-B035#225T | 35       | 2.2       | B  | 85        | 23       | 125       | 0.8               | 6                     | 4                        | 0.137                      | 0.082 | 0.055 |
| CA45-B035#335T | 35       | 3.3       | B  | 85        | 23       | 125       | 1.2               | 6                     | 3.5                      | 0.146                      | 0.088 | 0.059 |
| CA45-C035#335T | 35       | 3.3       | C  | 85        | 23       | 125       | 1.2               | 6                     | 2.5                      | 0.190                      | 0.114 | 0.076 |
| CA45-B035#475T | 35       | 4.7       | B  | 85        | 23       | 125       | 1.6               | 6                     | 3.1                      | 0.156                      | 0.093 | 0.062 |
| CA45-C035#475T | 35       | 4.7       | C  | 85        | 23       | 125       | 1.6               | 6                     | 2.2                      | 0.202                      | 0.121 | 0.081 |
| CA45-D035#475T | 35       | 4.7       | D  | 85        | 23       | 125       | 1.6               | 6                     | 1.5                      | 0.265                      | 0.159 | 0.106 |
| CA45-B035#685T | 35       | 6.8       | B  | 85        | 23       | 125       | 2.4               | 6                     | 3                        | 0.158                      | 0.095 | 0.063 |
| CA45-C035#685T | 35       | 6.8       | C  | 85        | 23       | 125       | 2.4               | 6                     | 1.8                      | 0.224                      | 0.134 | 0.089 |
| CA45-D035#685T | 35       | 6.8       | D  | 85        | 23       | 125       | 2.4               | 6                     | 1.3                      | 0.284                      | 0.171 | 0.114 |
| CA45-C035#106T | 35       | 10        | C  | 85        | 23       | 125       | 3.5               | 6                     | 1.6                      | 0.237                      | 0.142 | 0.095 |
| CA45-D035#106T | 35       | 10        | D  | 85        | 23       | 125       | 3.5               | 6                     | 1                        | 0.324                      | 0.194 | 0.130 |
| CA45-E035#106T | 35       | 10        | E  | 85        | 23       | 125       | 3.5               | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-C035#156T | 35       | 15        | C  | 85        | 23       | 125       | 5.3               | 6                     | 1.4                      | 0.254                      | 0.152 | 0.101 |
| CA45-D035#156T | 35       | 15        | D  | 85        | 23       | 125       | 5.3               | 6                     | 0.8                      | 0.362                      | 0.217 | 0.145 |
| CA45-E035#156T | 35       | 15        | E  | 85        | 23       | 125       | 5.3               | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-C035#226T | 35       | 22        | C  | 85        | 23       | 125       | 7.7               | 6                     | 1.4                      | 0.254                      | 0.152 | 0.101 |
| CA45-D035#226T | 35       | 22        | D  | 85        | 23       | 125       | 7.7               | 6                     | 0.7                      | 0.387                      | 0.232 | 0.155 |
| CA45-E035#226T | 35       | 22        | E  | 85        | 23       | 125       | 7.7               | 6                     | 0.5                      | 0.500                      | 0.300 | 0.200 |
| CA45-D035#336T | 35       | 33        | D  | 85        | 23       | 125       | 11.6              | 6                     | 0.9                      | 0.342                      | 0.205 | 0.137 |
| CA45-E035#336T | 35       | 33        | E  | 85        | 23       | 125       | 11.6              | 6                     | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-D035#476T | 35       | 47        | D  | 85        | 23       | 125       | 16.5              | 8                     | 1.2                      | 0.296                      | 0.177 | 0.118 |

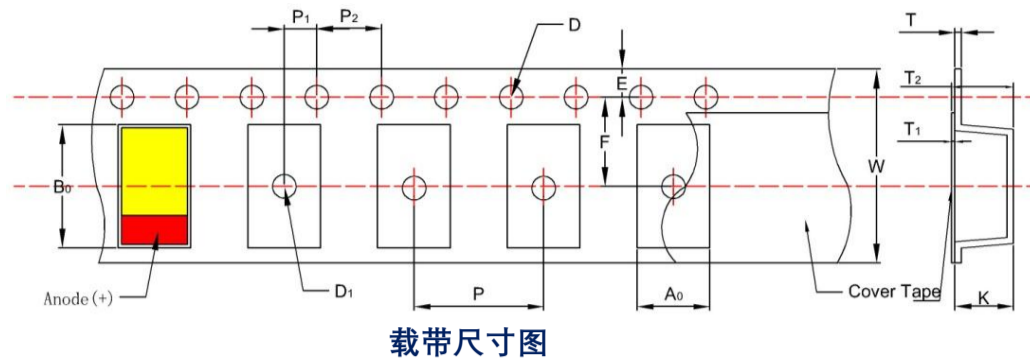
- #为替换字符用以表示容量公差，填入 K 表示±10%，M 表示±20%；
- 请不要用万用表测量；
- 容量和损耗测量条件：100Hz，U<sub>DC</sub>=2.2V-1.0V，U<sub>AC</sub>=1.0V-0.5V，Frequency=100Hz，串联方式测量
- 环境温度高于+85°C需要降额电压使用。（漏电流参数为通电 5 分钟后读数）。
- 特殊尺寸或要求请联系我们。

产品编码及其参数规格

| 产品编码           | 额定电压 (V) | 标称容量 (μF) | 壳号 | 额定温度 (°C) | 类别电压 (V) | 类别温度 (°C) | 漏电流最大值(μA) @25°C | 损耗最大值(%) @25°C 100Hz | ESR 最大值 (Ω) @25°C 100KHz | 允许纹波电流最大值 @100KHz IRMS (A) |       |       |
|----------------|----------|-----------|----|-----------|----------|-----------|------------------|----------------------|--------------------------|----------------------------|-------|-------|
|                |          |           |    |           |          |           |                  |                      |                          | 25°C                       | 85°C  | 125°C |
| CA45-E035#476T | 35       | 47        | E  | 85        | 23       | 125       | 16.5             | 6                    | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-V035#476T | 35       | 47        | V  | 85        | 23       | 125       | 16.5             | 6                    | 0.4                      | 0.612                      | 0.367 | 0.245 |
| CA45-E035#686T | 35       | 68        | E  | 85        | 23       | 125       | 23.8             | 8                    | 1                        | 0.354                      | 0.212 | 0.141 |
| CA45-V035#686T | 35       | 68        | V  | 85        | 23       | 125       | 23.8             | 6                    | 0.5                      | 0.548                      | 0.329 | 0.219 |
| CA45-G035#107W | 35       | 100       | G  | 85        | 23       | 125       | 35.0             | 8                    | 0.25                     | 0.980                      | 0.588 | 0.392 |
| CA45-S035#107W | 35       | 100       | S  | 85        | 23       | 125       | 35.0             | 8                    | 0.25                     | 1.058                      | 0.635 | 0.423 |
| CA45-T035#107W | 35       | 100       | T  | 85        | 23       | 125       | 35.0             | 8                    | 0.25                     | 1.149                      | 0.689 | 0.460 |
| CA45-T035#157W | 35       | 150       | T  | 85        | 23       | 125       | 52.5             | 8                    | 0.2                      | 1.285                      | 0.771 | 0.514 |
| CA45-A050#474T | 50       | 0.47      | A  | 85        | 33       | 125       | 0.5              | 4                    | 9.5                      | 0.083                      | 0.050 | 0.033 |
| CA45-A050#684T | 50       | 0.68      | A  | 85        | 33       | 125       | 0.5              | 4                    | 7.9                      | 0.091                      | 0.054 | 0.036 |
| CA45-A050#105T | 50       | 1         | A  | 85        | 33       | 125       | 0.5              | 4                    | 6.6                      | 0.099                      | 0.060 | 0.040 |
| CA45-B050#105T | 50       | 1         | B  | 85        | 33       | 125       | 0.5              | 6                    | 6                        | 0.112                      | 0.067 | 0.045 |
| CA45-B050#155T | 50       | 1.5       | B  | 85        | 33       | 125       | 0.8              | 8                    | 5.4                      | 0.118                      | 0.071 | 0.047 |
| CA45-C050#155T | 50       | 1.5       | C  | 85        | 33       | 125       | 0.8              | 6                    | 4.5                      | 0.141                      | 0.085 | 0.057 |
| CA45-B050#225T | 50       | 2.2       | B  | 85        | 33       | 125       | 1.1              | 8                    | 4.5                      | 0.129                      | 0.077 | 0.052 |
| CA45-C050#225T | 50       | 2.2       | C  | 85        | 33       | 125       | 1.1              | 6                    | 2.5                      | 0.190                      | 0.114 | 0.076 |
| CA45-D050#225T | 50       | 2.2       | D  | 85        | 33       | 125       | 1.1              | 6                    | 2.5                      | 0.205                      | 0.123 | 0.082 |
| CA45-C050#335T | 50       | 3.3       | C  | 85        | 33       | 125       | 1.7              | 6                    | 2                        | 0.212                      | 0.127 | 0.085 |
| CA45-D050#335T | 50       | 3.3       | D  | 85        | 33       | 125       | 1.7              | 6                    | 2                        | 0.229                      | 0.137 | 0.092 |
| CA45-C050#475T | 50       | 4.7       | C  | 85        | 33       | 125       | 2.4              | 4                    | 1.4                      | 0.254                      | 0.152 | 0.101 |
| CA45-D050#475T | 50       | 4.7       | D  | 85        | 33       | 125       | 2.4              | 6                    | 1.2                      | 0.296                      | 0.177 | 0.118 |
| CA45-C050#685T | 50       | 6.8       | C  | 85        | 33       | 125       | 3.4              | 6                    | 1                        | 0.300                      | 0.180 | 0.120 |
| CA45-D050#685T | 50       | 6.8       | D  | 85        | 33       | 125       | 3.4              | 6                    | 1                        | 0.324                      | 0.194 | 0.130 |
| CA45-E050#685T | 50       | 6.8       | E  | 85        | 33       | 125       | 3.4              | 6                    | 1.5                      | 0.289                      | 0.173 | 0.115 |
| CA45-D050#106T | 50       | 10        | D  | 85        | 33       | 125       | 5.0              | 6                    | 0.8                      | 0.362                      | 0.217 | 0.145 |
| CA45-E050#106T | 50       | 10        | E  | 85        | 33       | 125       | 5.0              | 6                    | 1                        | 0.354                      | 0.212 | 0.141 |
| CA45-V050#106T | 50       | 10        | V  | 85        | 33       | 125       | 5.0              | 6                    | 0.65                     | 0.480                      | 0.288 | 0.192 |
| CA45-D050#156T | 50       | 15        | D  | 85        | 33       | 125       | 7.5              | 6                    | 0.6                      | 0.418                      | 0.251 | 0.167 |
| CA45-E050#156T | 50       | 15        | E  | 85        | 33       | 125       | 7.5              | 6                    | 0.6                      | 0.456                      | 0.274 | 0.183 |
| CA45-V050#156T | 50       | 15        | V  | 85        | 33       | 125       | 7.5              | 6                    | 0.6                      | 0.500                      | 0.300 | 0.200 |
| CA45-E050#226T | 50       | 22        | E  | 85        | 33       | 125       | 11.0             | 8                    | 0.9                      | 0.373                      | 0.224 | 0.149 |
| CA45-V050#226T | 50       | 22        | V  | 85        | 33       | 125       | 11.0             | 8                    | 0.6                      | 0.500                      | 0.300 | 0.200 |
| CA45-W050#336T | 50       | 33        | W  | 85        | 33       | 125       | 16.5             | 6                    | 0.3                      | 0.816                      | 0.490 | 0.327 |
| CA45-G050#336W | 50       | 33        | G  | 85        | 33       | 125       | 16.5             | 6                    | 0.3                      | 0.894                      | 0.537 | 0.358 |
| CA45-S050#476W | 50       | 47        | S  | 85        | 33       | 125       | 23.5             | 6                    | 0.3                      | 0.966                      | 0.580 | 0.386 |
| CA45-T050#476W | 50       | 47        | T  | 85        | 33       | 125       | 23.5             | 6                    | 0.3                      | 1.049                      | 0.629 | 0.420 |
| CA45-T050#686W | 50       | 68        | T  | 85        | 33       | 125       | 34.0             | 6                    | 0.25                     | 1.149                      | 0.689 | 0.460 |
| CA45-T050#107W | 50       | 100       | T  | 85        | 33       | 125       | 50.0             | 8                    | 0.25                     | 1.149                      | 0.689 | 0.460 |
| CA45-C063#105T | 63       | 1         | C  | 85        | 40       | 125       | 0.6              | 6                    | 5                        | 0.134                      | 0.080 | 0.054 |
| CA45-D063#155T | 63       | 1.5       | D  | 85        | 40       | 125       | 0.9              | 6                    | 3.5                      | 0.173                      | 0.104 | 0.069 |
| CA45-D063#225T | 63       | 2.2       | D  | 85        | 40       | 125       | 1.4              | 6                    | 2                        | 0.229                      | 0.137 | 0.092 |
| CA45-D063#335T | 63       | 3.3       | D  | 85        | 40       | 125       | 2.1              | 6                    | 1.5                      | 0.265                      | 0.159 | 0.106 |
| CA45-E063#475T | 63       | 4.7       | E  | 85        | 40       | 125       | 3.0              | 6                    | 1                        | 0.354                      | 0.212 | 0.141 |
| CA45-E063#685T | 63       | 6.8       | E  | 85        | 40       | 125       | 4.3              | 6                    | 0.8                      | 0.395                      | 0.237 | 0.158 |
| CA45-E063#106T | 63       | 10        | E  | 85        | 40       | 125       | 6.3              | 8                    | 0.6                      | 0.456                      | 0.274 | 0.183 |
| CA45-W063#106T | 63       | 10        | W  | 85        | 40       | 125       | 6.3              | 6                    | 0.4                      | 0.707                      | 0.424 | 0.283 |
| CA45-E063#156T | 63       | 15        | E  | 85        | 40       | 125       | 9.5              | 8                    | 0.4                      | 0.559                      | 0.335 | 0.224 |
| CA45-V063#156T | 63       | 15        | V  | 85        | 40       | 125       | 9.5              | 8                    | 0.4                      | 0.612                      | 0.367 | 0.245 |
| CA45-W063#156T | 63       | 15        | W  | 85        | 40       | 125       | 9.5              | 6                    | 0.4                      | 0.707                      | 0.424 | 0.283 |
| CA45-V063#226T | 63       | 22        | V  | 85        | 40       | 125       | 13.9             | 8                    | 0.4                      | 0.612                      | 0.367 | 0.245 |
| CA45-W063#226T | 63       | 22        | W  | 85        | 40       | 125       | 13.9             | 6                    | 0.4                      | 0.707                      | 0.424 | 0.283 |
| CA45-G063#226W | 63       | 22        | G  | 85        | 40       | 125       | 13.9             | 6                    | 0.4                      | 0.775                      | 0.465 | 0.310 |
| CA45-T063#336W | 63       | 33        | T  | 85        | 40       | 125       | 20.8             | 6                    | 0.3                      | 1.049                      | 0.629 | 0.420 |
| CA45-T063#476W | 63       | 47        | T  | 85        | 40       | 125       | 29.6             | 6                    | 0.3                      | 1.049                      | 0.629 | 0.420 |
| CA45-T063#686W | 63       | 68        | T  | 85        | 40       | 125       | 42.8             | 6                    | 0.25                     | 1.149                      | 0.689 | 0.460 |

- #为替换字符用以表示容量公差，填入 K 表示±10%，M 表示±20%；
- 请不要用万用表测量；
- 容量和损耗测量条件：100Hz，U<sub>DC</sub>=2.2~1.0V，U<sub>AC</sub>~1.0~0.5V，Frequency=100Hz，串联方式测量
- 环境温度高于+85°C需要降额电压使用。（漏电流参数为通电 5 分钟后读数）。
- 特殊尺寸或要求请联系我们。

### A,B,C,D,E,V,W 壳号产品包装



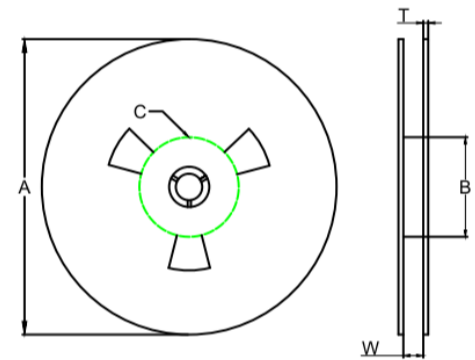
#### 载带尺寸

| Case | $A_0 \pm 0.10$ | $B_0 \pm 0.10$ | $K \pm 0.10$ | $W \pm 0.30$   | $E \pm 0.10$ | $F \pm 0.05$ | $P \pm 0.10$ | $P_1 \pm 0.05$ | $P_2 \pm 0.10$ | $D \pm 0.20$   | $D_1 \pm 0.25$ |
|------|----------------|----------------|--------------|----------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|
| A    | 1.88           | 3.53           | 1.95         | $8.0 \pm 0.10$ | 1.75         | 3.5          | 4            | 2              | 4              | $1.5 \pm 0.10$ | $1.0 \pm 0.10$ |
| B    | 3.20           | 3.80           | 1.90         | 8              | 1.75         | 3.5          | 4            | 2              | 4              | 1.5            | 1              |
| C    | 3.45           | 6.4            | 2.92         | 12             | 1.75         | 5.5          | 8            | 2              | 4              | 1.5            | 1.5            |
| D    | 4.48           | 7.62           | 3.22         | 12             | 1.75         | 5.5          | 8            | 2              | 4              | 1.5            | 1.5            |
| E    | 4.5            | 7.5            | 4.5          | 12             | 1.75         | 5.5          | 8            | 2              | 4              | 1.5            | 1.5            |
| V    | 6.4            | 7.6            | 4.4          | 12             | 1.75         | 5.5          | 8            | 2              | 4              | 1.5            | 1.5            |
| W    | 7.2            | 8.1            | 4.75         | 16             | 1.75         | 7.5          | 12           | 2              | 4              | 1.5            | 1.5            |

超过 10 个定位孔偏差为 $\pm 0.2\text{mm}$

#### 轮盘尺寸

| 轮盘尺寸       | 载带宽度 | A              | B      | C               | W                 | T               |
|------------|------|----------------|--------|-----------------|-------------------|-----------------|
| 180mm (7") | 8mm  | $178 \pm 2.00$ | 50 min | $13.0 \pm 0.50$ | $8.4 + 1.5 / -0$  | $1.50 \pm 0.50$ |
| 180mm (7") | 12mm | $178 \pm 2.00$ | 50 min | $13.0 \pm 0.50$ | $12.4 + 1.5 / -0$ | $1.50 \pm 0.50$ |
| 180mm (7") | 16mm | $178 \pm 2.00$ | 50 min | $13.0 \pm 0.50$ | $16.4 + 1.5 / -1$ | $1.50 \pm 0.50$ |



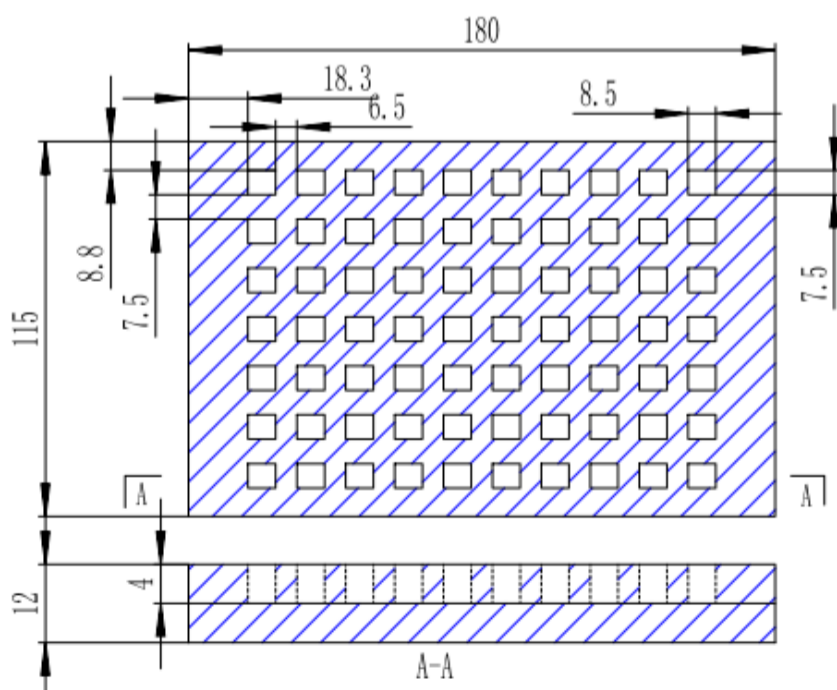
#### 包装数量

| 壳号尺寸       | A    | B    | C   | D   | E   | V   | W   |
|------------|------|------|-----|-----|-----|-----|-----|
| 数量 (只 / 盘) | 2000 | 2000 | 500 | 500 | 400 | 400 | 400 |

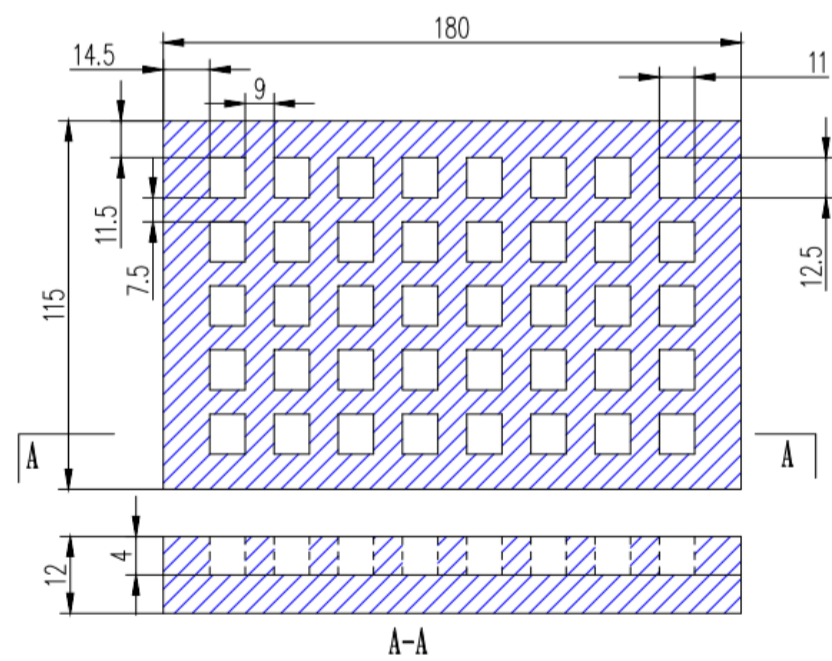
轮盘尺寸图

### G, S, T 壳产品包装

包装盘尺寸见下图。G壳为70只/盘。S壳和T壳为40只/盘。



G壳包装盘



S,T壳包装盘



## 焊盘尺寸

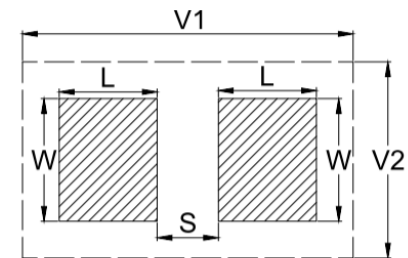
| 壳号<br>代码 | 公制尺寸<br>代码 | 密度等级 A: (应用最广)<br>最大焊盘 (mm) |      |      |       |     | 密度等级 B: (较常应用)<br>中等焊盘 (mm) |      |      |      |     | 密度等级 C: (很少应用)<br>最小焊盘 (mm) |      |      |      |      |
|----------|------------|-----------------------------|------|------|-------|-----|-----------------------------|------|------|------|-----|-----------------------------|------|------|------|------|
|          |            | W                           | L    | S    | V1    | V2  | W                           | L    | S    | V1   | V2  | W                           | L    | S    | V1   | V2   |
| A        | 3216-18    | 1.35                        | 2.20 | 0.62 | 6.02  | 2.8 | 1.23                        | 1.8  | 0.82 | 4.92 | 2.3 | 1.13                        | 1.42 | 0.98 | 4.06 | 2.04 |
| B        | 3528-21    | 2.35                        | 2.21 | 0.92 | 6.32  | 4.0 | 2.23                        | 1.8  | 1.12 | 5.22 | 3.5 | 2.13                        | 1.42 | 1.28 | 4.36 | 3.24 |
| C        | 6032-25    | 2.35                        | 2.77 | 2.37 | 8.92  | 4.5 | 2.23                        | 2.37 | 2.57 | 7.82 | 4   | 2.13                        | 1.99 | 2.73 | 6.96 | 3.74 |
| D        | 7343-31    | 2.55                        | 2.77 | 3.67 | 10.22 | 5.6 | 2.43                        | 2.37 | 3.87 | 9.12 | 5.1 | 2.33                        | 1.99 | 4.03 | 8.26 | 4.84 |
| E        | 7343-43    | 2.55                        | 2.77 | 3.67 | 10.22 | 5.6 | 2.43                        | 2.37 | 3.87 | 9.12 | 5.1 | 2.33                        | 1.99 | 4.03 | 8.26 | 4.84 |

**密度等级 A:** 元件低密度贴装的产品应用。常用于波峰焊和要求有较大制程余量的回流焊

**密度等级 B:** 元件中等密度贴装的产品应用。常用于焊接可靠性要求较高的场合。

**密度等级 C:** 元件高密度贴装的产品应用。常用于焊接空间余量较小的场合，使用前需按 IPC-7351 标准进行性能测试检查：

- 1 贴片元件的高度会对波峰焊有影响；
- 2 焊盘图形太小会对丝网印刷的轮廓有影响。



表面贴装引脚

## 焊接

**湘怡** 钽电容器可适用于波峰焊（单峰或双峰）、对流焊、红外焊、气相回流焊等焊接方式。对这些元件进行预热是为了防止极端的热应力。**湘怡** 建议对流焊和红外焊需要参照 IPC/J-STD-020D 标准的湿度敏感等级要求设定焊接曲线。这些元件按这些条件在 3 次回流焊以内是安全的。

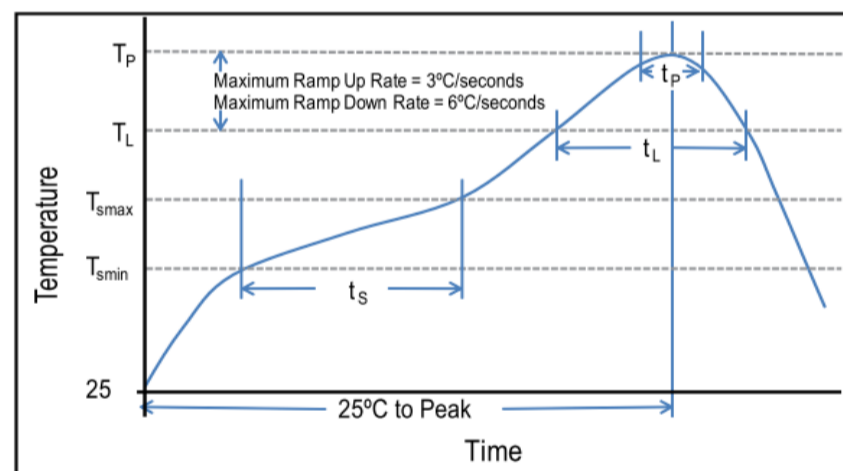
手工焊接必须要小心操作，因为其过程难以控制。如果进行手工焊接，则要防止烙铁头碰到塑封体。烙铁用于加热焊盘，在焊盘和产品引脚之间加热焊锡直到熔化，当熔锡出现后要立即撤开烙铁。不允许用烙铁在产品边缘划抹和在产品上端面加热。

典型的回流焊过程，黄色树脂封装体表面会出现轻微发黑现象。该变化过程不会对产品产生破坏作用，也不会对产品标识的耐久性造成影响。

| 曲线特征                         | 锡铅焊料             | 无铅焊料             |
|------------------------------|------------------|------------------|
| 预热/浸润                        |                  |                  |
| 预热最低温度 ( $T_{smin}$ )        | 100°C            | 150°C            |
| 预热最高温度 ( $T_{smax}$ )        | 150°C            | 200°C            |
| 预热时间 ( $t_s$ )               | 60 - 120 秒       | 60 - 120 秒       |
| 升温速率 ( $T_L$ to $T_P$ )      | ≤3°C/秒           | ≤3°C/秒           |
| 焊膏熔点 ( $T_L$ )               | 183°C            | 217°C            |
| 焊膏熔化时间 ( $t_L$ )             | 60 - 150 秒       | 60 - 150 秒       |
| 峰值温度 ( $T_P$ )               | 220°C* , 235°C** | 250°C* , 260°C** |
| 峰值温度保持时间, 偏差小于 5°C ( $t_P$ ) | ≤20 秒            | ≤30 秒            |
| 降温速率 ( $T_P$ to $T_L$ )      | ≤6°C/秒           | ≤6°C/秒           |
| 室温 25°C 到峰值温度时间              | ≤6 分钟            | ≤8 分钟            |

注：所有温度都是基于产品尺寸，测量贴装产品上端面的温度。

\*对应 D, E 壳      \*\*对应 A, B, C 壳



回流焊温度曲线

## 存储条件

片式钽电容的介质层在以下条件，存储 2 年不会产生任何变化：

温度: -10°C - +40°C ; 湿度: ≤60% RH ; 大气压: 860 mbar ~ 1060mbar

除非存储环境异常出现的未知失效模式，钽电容器即使是长时间存储也基本不会失效。所有电容器按照技术规范要求环境下存储都可以达到其设计存储寿命。长时间存储在高湿度环境下会对树脂封装产品的漏电流性能造成影响。产品引脚的可焊性在 2 年内不受影响。