

PC 高分子导电型(低阻抗品)——插件型

PC Conductive polymer type(Low ESR type)-----Radial type

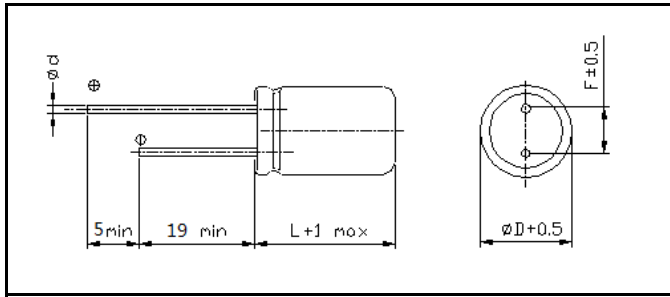
## 特点 Features

- 径向引线型，以 PE 为基础的高分子导电型。  
This is a lead type using conductive polymer based on PE
- 可适于无铅焊  
Lead free-flow is supported
- ROHS 指令已对应完毕。Adapted to the ROHS directive.

## 主要技术性能 Specifications

| 项目 Items   | 特性 Characteristics  |  |  |
|--|---|--|--|
| 工作温度范围<br>Operating Temperature Range                                    | -55℃ ~+105℃   |  |  |
| 额定电压范围<br>Rated Voltage Range  | 2.5V ~2 5V  |  |  |
| 标称容量范围<br>Nominal Capacitance Range                                      | 3.3 ~ 2200μF  |  |  |
| 标称容量允许偏差<br>Nominal Capacitance Tolerance                                | ±20% (20℃, 120Hz)   |  |  |
| 漏电流<br>Leakage Current   | ≤表 1 规定值 Less than or equal to the value of table1<br>2 分钟 at 20℃, after 2 minutes  |  |  |
| 损耗角正切 (tgδ)<br>Dissipation Factor (Max)                                  | 20℃, 120Hz  | 直径<br>tgδ  | Φ4~Φ5<br>0.10                                    |
|  |   |  | Φ6.3~Φ10<br>0.08                                 |
| ESR  | ≤表 1 规定值 Less than or equal to the value of table1  |  |  |
| 高低温特性比<br>Characteristics of impedance ratio at high temp. and low temp. | 要求在 100KHZ 20℃<br>Based the value at 100KHZ. +20℃   | -55℃<br>+105℃  | Z/Z20℃<br>Z/Z20℃<br>0.75 to 1.25<br>0.75 to 1.25 |
| 耐久性<br>Load Life   | +105℃施加额定电压 5000 小时后，电容器应满足以下要求(Φ4&Φ5 或制品高度在 6mm 以下的产品寿命：2000 小时)：<br>After 5000 hours' application of rated voltage at 105℃, the capacitor shall meet the following requirement: (Load life time of Φ4 & Φ5 or the height not more than 6mm: 2000 hours) |  |  |
|  | 电容量变化率<br>Capacitance Change  | ±20%初始值以内<br>Within ±20% of the initial value (16V: within ±25% of the initial value)    |  |
|  | 损耗角正切<br>Dissipation Factor   | ≤ 150%初始规定值<br>Not more than 150% of the initial specified value                         |  |
|  | 阻抗<br>Equivalent Series Resistance  | ≤ 150%初始规定值<br>Not more than 150% of the initial specified value                         |  |
|  | 漏电流<br>Leakage Current  | ≤ 初始规定值<br>Not more than the initial specified value                                     |  |
| 稳态湿热<br>Damp heat(Steady state)  | 60℃, 90~95% RH, 不加电压 1000 小时 60℃, 90~95% RH, 1000 hours, No-applied voltage.  |  |  |
|  | 电容量变化率<br>Capacitance Change  | ±20%初始值以内<br>Within ±20% of the initial value (16V: within ±25% of the initial value)    |  |
|  | 损耗角正切<br>Dissipation Factor   | ≤ 150%初始规定值<br>Not more than 150% of the initial specified value                         |  |
|  | 阻抗<br>Equivalent Series Resistance  | ≤ 150%初始规定值<br>Not more than 150% of the initial specified value                         |  |
|  | 漏电流<br>Leakage Current  | ≤ 初始规定值<br>Not more than the initial specified value                                     |  |
| 耐焊接热<br>Resistance to Soldering Heat                                     | (VPS) (260℃ X 10s)  |  |  |
|  | 电容量变化率<br>Capacitance Change  | ±10%初始值以内<br>Within ±10% of the initial value (16V 以上: within ±15% of the initial value) |  |
|  | 损耗角正切<br>Dissipation Factor   | ≤ 初始规定值<br>Not more than the initial specified value                                     |  |
|  | 阻抗<br>Equivalent Series Resistance  | ≤ 初始规定值<br>Not more than the initial specified value                                     |  |
|  | 漏电流<br>Leakage Current  | ≤ 初始规定值<br>Not more than the initial specified value                                     |  |

尺寸图 Dimensions



单位 Unit:mm

|   |      |     |     |     |     |
|---|------|-----|-----|-----|-----|
| D | 4    | 5   | 6   | 8   | 10  |
| F | 1.5  | 2.0 | 2.5 | 3.5 | 5   |
| d | 0.45 | 0.5 | 0.6 | 0.6 | 0.6 |

尺寸表 Size list

■称电容量、额定电压、额定纹波电流与尺寸对应表 Nominal capacitance, rated voltage, rated ripple current and case size table

| Size Code | UR (V) | CR (μF) | ESR (mΩ max.) | Ripple 100KHZ (mArms) | Leakage current(μA) (max.) | Size Code | UR (V) | CR (μF) | ESR (mΩ max.) | Ripple 100KHZ (mArms) | Leakage current(μA) (max.) |
|-----------|--------|---------|---------------|-----------------------|----------------------------|-----------|--------|---------|---------------|-----------------------|----------------------------|
| 4×5.4     | 16     | 3.3     | 75            | 1020                  | 100                        | 6.3×5.4   | 4      | 330     | 15            | 3300                  | 264                        |
|           | 10     | 4.7     | 75            | 1020                  | 100                        |           | 2.5    | 220     | 15            | 3300                  | 110                        |
|           | 10     | 6.8     | 75            | 1020                  | 100                        |           | 2.5    | 330     | 15            | 3300                  | 165                        |
|           | 10     | 10      | 75            | 1020                  | 100                        |           | 2.5    | 390     | 15            | 3300                  | 195                        |
|           | 10     | 15      | 75            | 1020                  | 100                        | 6.3×9     | 16     | 220     | 10            | 4700                  | 704                        |
|           | 6.3    | 22      | 75            | 1020                  | 100                        |           | 16     | 270     | 10            | 4700                  | 864                        |
|           | 4      | 33      | 75            | 1020                  | 100                        |           | 6.3    | 470     | 7             | 4700                  | 592                        |
| 5×5.4     | 20     | 10      | 75            | 1440                  | 100                        |           | 6.3    | 560     | 7             | 4700                  | 706                        |
|           | 16     | 15      | 75            | 1440                  | 100                        |           | 4      | 470     | 7             | 5400                  | 376                        |
|           | 16     | 22      | 75            | 1440                  | 100                        |           | 4      | 560     | 7             | 5400                  | 448                        |
|           | 10     | 33      | 75            | 1500                  | 100                        |           | 2.5    | 470     | 7             | 5400                  | 235                        |
|           | 6.3    | 47      | 75            | 1500                  | 100                        | 2.5       | 560    | 7       | 5400          | 280                   |                            |
|           | 4      | 39      | 75            | 1500                  | 100                        | 2.5       | 820    | 7       | 5400          | 410                   |                            |
|           | 4      | 68      | 75            | 1800                  | 100                        | 2.5       | 1000   | 7       | 5400          | 500                   |                            |
| 5×8       | 6.3    | 270     | 15            | 2500                  | 340                        | 8×7       | 25     | 10      | 24            | 3100                  | 100                        |
| 5×11      | 16     | 100     | 24            | 2500                  | 320                        |           | 20     | 33      | 24            | 3100                  | 132                        |
| 6.3×5.4   | 25     | 6.8     | 24            | 1800                  | 100                        |           | 20     | 47      | 24            | 3100                  | 188                        |
|           | 25     | 27      | 24            | 2400                  | 135                        |           | 16     | 56      | 12            | 4700                  | 179                        |
|           | 25     | 33      | 24            | 2400                  | 165                        |           | 16     | 82      | 12            | 4700                  | 262                        |
|           | 20     | 22      | 24            | 2500                  | 100                        |           | 16     | 270     | 12            | 4700                  | 864                        |
|           | 20     | 27      | 24            | 2500                  | 108                        |           | 10     | 120     | 12            | 4700                  | 240                        |
|           | 16     | 39      | 24            | 1820                  | 125                        |           | 10     | 150     | 12            | 4700                  | 300                        |
|           | 16     | 47      | 24            | 2400                  | 150                        |           | 6.3    | 220     | 7             | 4700                  | 277                        |
|           | 16     | 68      | 24            | 2400                  | 218                        |           | 4      | 150     | 7             | 4700                  | 120                        |
|           | 16     | 82      | 24            | 2400                  | 262                        |           | 4      | 330     | 7             | 5400                  | 264                        |
|           | 16     | 100     | 24            | 2400                  | 320                        |           | 4      | 470     | 7             | 5400                  | 376                        |
|           | 10     | 47      | 15            | 1800                  | 100                        |           | 4      | 560     | 7             | 5400                  | 448                        |
|           | 10     | 56      | 15            | 1800                  | 112                        |           | 2.5    | 470     | 7             | 5400                  | 235                        |
|           | 10     | 120     | 15            | 2400                  | 240                        |           | 2.5    | 560     | 7             | 5400                  | 280                        |
|           | 6.3    | 82      | 15            | 1800                  | 103                        |           | 2.5    | 820     | 7             | 5400                  | 410                        |
|           | 6.3    | 100     | 15            | 1950                  | 126                        | 2.5       | 1000   | 7       | 5400          | 500                   |                            |
|           | 6.3    | 120     | 15            | 2780                  | 151                        | 8×9       | 16     | 270     | 10            | 5100                  | 864                        |
| 6.3       | 220    | 15      | 3100          | 277                   | 16                         |           | 330    | 10      | 5100          | 1056                  |                            |
| 4         | 150    | 15      | 1950          | 120                   | 6.3                        |           | 470    | 7       | 5400          | 592                   |                            |
| 4         | 220    | 15      | 2390          | 176                   | 6.3                        |           | 560    | 7       | 5700          | 706                   |                            |

| Size Code | UR (V) | CR (μF) | ESR (mΩ max.) | Ripple 100KHZ (mArms) | Leakage current(μA) (max.) | Size Code | UR (V) | CR (μF) | ESR (mΩ max.) | Ripple 100KHZ (mArms) | Leakage current(μA) (max.) |
|-----------|--------|---------|---------------|-----------------------|----------------------------|-----------|--------|---------|---------------|-----------------------|----------------------------|
| 8×9       | 6.3    | 820     | 7             | 5700                  | 1033                       | 10×10     | 25     | 56      | 24            | 3800                  | 280                        |
|           | 4      | 470     | 7             | 5900                  | 376                        |           | 25     | 100     | 24            | 3900                  | 500                        |
|           | 4      | 560     | 7             | 6100                  | 448                        |           | 25     | 150     | 24            | 4320                  | 750                        |
|           | 4      | 820     | 7             | 6100                  | 656                        |           | 20     | 150     | 24            | 4700                  | 600                        |
|           | 4      | 1000    | 7             | 6100                  | 800                        |           | 20     | 220     | 24            | 4700                  | 880                        |
|           | 2.5    | 470     | 7             | 6100                  | 235                        |           | 20     | 270     | 24            | 4700                  | 1080                       |
|           | 2.5    | 560     | 7             | 6100                  | 280                        |           | 20     | 330     | 24            | 4700                  | 1320                       |
|           | 2.5    | 820     | 7             | 6100                  | 410                        |           | 20     | 390     | 24            | 4700                  | 1560                       |
|           | 2.5    | 1000    | 7             | 6100                  | 500                        |           | 16     | 330     | 10            | 4720                  | 1056                       |
|           | 2.5    | 1200    | 7             | 6100                  | 600                        |           | 16     | 390     | 10            | 5400                  | 1248                       |
| 8×10      | 25     | 33      | 24            | 2980                  | 165                        | 16        | 470    | 10      | 5400          | 1504                  |                            |
|           | 20     | 100     | 24            | 3320                  | 400                        | 10        | 470    | 10      | 5400          | 940                   |                            |
|           | 16     | 180     | 10            | 5140                  | 576                        | 10        | 560    | 10      | 5400          | 1120                  |                            |
|           | 16     | 220     | 10            | 5100                  | 704                        | 6.3       | 820    | 7       | 6100          | 1033                  |                            |
|           | 16     | 270     | 10            | 5100                  | 864                        | 4         | 1000   | 7       | 6100          | 800                   |                            |
|           | 16     | 330     | 10            | 5100                  | 1056                       | 4         | 1200   | 7       | 6100          | 960                   |                            |
|           | 10     | 330     | 10            | 5100                  | 660                        | 2.5       | 1000   | 7       | 6100          | 500                   |                            |
|           | 6.3    | 470     | 7             | 5700                  | 592                        | 2.5       | 1200   | 7       | 6100          | 600                   |                            |
|           | 6.3    | 560     | 7             | 6100                  | 706                        | 2.5       | 1500   | 7       | 6100          | 750                   |                            |
|           | 6.3    | 820     | 7             | 6100                  | 1033                       | 10×12     | 25     | 150     | 24            | 3900                  | 750                        |
|           | 4      | 560     | 7             | 6100                  | 448                        |           | 25     | 220     | 24            | 3900                  | 1100                       |
|           | 4      | 680     | 7             | 6100                  | 544                        |           | 20     | 150     | 24            | 3900                  | 600                        |
|           | 4      | 820     | 7             | 6100                  | 656                        |           | 20     | 220     | 24            | 3900                  | 880                        |
|           | 4      | 1000    | 7             | 6100                  | 800                        |           | 20     | 270     | 24            | 3900                  | 1080                       |
| 2.5       | 680    | 7       | 6100          | 340                   | 20                         |           | 330    | 24      | 3900          | 1320                  |                            |
| 2.5       | 820    | 7       | 6100          | 410                   | 20                         |           | 390    | 24      | 3900          | 1560                  |                            |
| 2.5       | 1000   | 7       | 6100          | 500                   | 20                         |           | 470    | 24      | 3900          | 1880                  |                            |
| 2.5       | 1200   | 7       | 6100          | 600                   | 16                         |           | 330    | 10      | 5400          | 1056                  |                            |
| 8×12      | 25     | 100     | 24            | 3900                  | 500                        |           | 16     | 390     | 10            | 5400                  | 1248                       |
|           | 20     | 100     | 24            | 3900                  | 400                        |           | 16     | 470     | 10            | 5400                  | 1504                       |
|           | 20     | 150     | 24            | 3900                  | 600                        |           | 16     | 560     | 10            | 5400                  | 1792                       |
|           | 16     | 220     | 10            | 5100                  | 704                        |           | 10     | 560     | 10            | 5400                  | 1120                       |
|           | 16     | 270     | 10            | 5100                  | 864                        |           | 10     | 680     | 10            | 5400                  | 1360                       |
|           | 16     | 330     | 10            | 5100                  | 1056                       | 6.3       | 820    | 7       | 6100          | 1033                  |                            |
|           | 16     | 390     | 10            | 5100                  | 1248                       | 6.3       | 1000   | 7       | 6100          | 1260                  |                            |
|           | 10     | 0       | 10            | 5400                  | 660                        | 4         | 1000   | 7       | 6100          | 800                   |                            |
|           | 10     | 390     | 10            | 5400                  | 780                        | 4         | 1200   | 7       | 6100          | 960                   |                            |
|           | 10     | 470     | 10            | 5400                  | 940                        | 4         | 1500   | 7       | 6100          | 1200                  |                            |
|           | 6.3    | 820     | 7             | 6100                  | 1033                       | 2.5       | 1000   | 7       | 6100          | 500                   |                            |
|           | 6.3    | 1000    | 7             | 6100                  | 1260                       | 2.5       | 1200   | 7       | 6100          | 600                   |                            |
|           | 2.5    | 820     | 7             | 6100                  | 410                        | 2.5       | 1500   | 7       | 6100          | 750                   |                            |
|           | 2.5    | 1000    | 7             | 6100                  | 500                        | 2.5       | 2200   | 7       | 6100          | 1100                  |                            |
|           | 2.5    | 1200    | 7             | 6100                  | 600                        |           |        |         |               |                       |                            |
|           | 2.5    | 1500    | 7             | 6100                  | 750                        |           |        |         |               |                       |                            |

ESR(100KHZ to 300KHZ)

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