

PD 高分子导电型(低阻抗品)——贴片型

PD Series Conductive polymer type(Low ESR type)-----SMD type

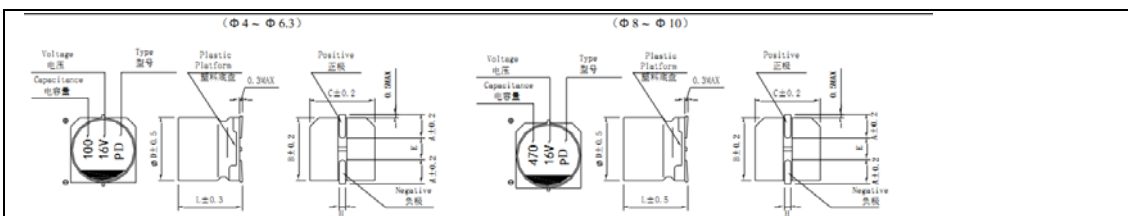
特点 Features

- 适用于表面贴装。Use for surface mounted type.
- 适用于无铅回流焊。The product can support lead free -reflow .
- 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 Operating Temperature Range | -55℃ ~+105℃ | | |
| 额定电压范围 Rated Voltage Range | 2.5V ~2 5V | | |
| 标称容量范围 Nominal Capacitance Range | 3.3 ~ 2200μF | | |
| 标称容量允许偏差 Nominal Capacitance Tolerance | ±20% (20℃, 120Hz) | | |
| 漏电流 Leakage Current | ≤表 1 规定值 Less than or equal to the value of table1 2 分钟 at 20℃, after 2 minutes | | |
| 损耗角正切 (tgδ) Dissipation Factor (Max) | 20℃, 120Hz | 直径 tgδ | Φ4~Φ5 Φ6.3~Φ10 0.10 0.08 |
| ESR | ≤表 1 规定值 Less than or equal to the value of table1 | | |
| 高低温特性比 Characteristics of impedance ratio at high temp. and low temp. | 要求在 100KHZ 20℃ Based the value at 100KHZ. +20℃ | -55℃ | Z/Z20℃ 0.75 to 1.25 +105℃ Z/Z20℃ 0.75 to 1.25 |
| 耐久性 Load Life | +105℃施加额定电压 2000 小时后，电容器应满足以下要求： After 2000 hours' application of rated voltage at 105℃, the capacitor shall meet the following requirement: | | |
| | 容量变化率 Capacitance Change | ±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value) | |
| | 损耗角正切 Dissipation Factor | ≤ 150%初始规定值 Not more than 150% of the initial specified value | |
| | 阻抗 Equivalent Series Resistance | ≤ 150%初始规定值 Not more than 150% of the initial specified value | |
| | 漏电流 Leakage Current | ≤ 初始规定值 Not more than the initial specified value | |
| 稳态湿热 Damp heat(Steady state) | 60℃, 90~95% RH, 不加电压 1000 小时 60℃ ,90~95% RH, 1000 hours, No-applied voltage. | | |
| | 容量变化率 Capacitance Change | ±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value) | |
| | 损耗角正切 Dissipation Factor | ≤ 150%初始规定值 Not more than 150% of the initial specified value | |
| | 阻抗 Equivalent Series Resistance | ≤ 150%初始规定值 Not more than 150% of the initial specified value | |
| | 漏电流 Leakage Current | ≤ 初始规定值 Not more than the initial specified value | |
| 耐焊接热 Resistance to Soldering Heat | (VPS) (260℃ X 10s) | | |
| | 容量变化率 Capacitance Change | ±10%初始值以内 Within ±10% of the initial value (16V 以上: within ±15% of the initial value) | |
| | 损耗角正切 Dissipation Factor | ≤ 初始规定值 Not more than the initial specified value | |
| | 阻抗 Equivalent Series Resistance | ≤ 初始规定值 Not more than the initial specified value | |
| | 漏电流 Leakage Current | ≤ 初始规定值 Not more than the initial specified value | |

尺寸图 Dimensions



尺寸表 Size list

| | | | | | | | | | | |
|---|-----------|---------|-----------|-----------|---------|---------|----------|----------|-----------|-----------|
| | 4 × 5.4 | 5 × 5.4 | 6.3 × 5.4 | 6.3 × 9.5 | 8 × 7.7 | 8 × 9.5 | 8 × 10.5 | 8 × 12.5 | 10 × 10.5 | 10 × 12.5 |
| A | 1.8 | 2.1 | 2.4 | 2.4 | 2.9 | 2.9 | 2.9 | 2.9 | 3.2 | 3.2 |
| B | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 8.3 | 8.3 | 8.3 | 10.3 | 10.3 |
| C | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 8.3 | 8.3 | 8.3 | 10.3 | 10.3 |
| E | 1.0 | 1.3 | 2.2 | 2.2 | 3.1 | 3.1 | 3.1 | 3.1 | 4.5 | 4.5 |
| L | 6 | 6 | 6 | 9.5 | 7.7 | 9.5 | 10.5 | 12.5 | 10.5 | 12.5 |
| H | 0.5 ~ 0.8 | | | | 0.8~1.1 | | | | | |

■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 | 85 | 1020 | 300 | 6.3 × 5.4 | 2.5 | 330 | 18 | 3300 | 300 |
| | 10 | 4.7 | 85 | 1020 | 300 | | 2.5 | 390 | 18 | 3300 | 300 |
| | 10 | 6.8 | 85 | 1020 | 300 | 6.3 × 9.5 | 16 | 220 | 13 | 4700 | 704 |
| | 10 | 10 | 85 | 1020 | 300 | | 16 | 270 | 13 | 4700 | 864 |
| | 10 | 15 | 85 | 1020 | 300 | | 6.3 | 470 | 10 | 4700 | 592 |
| | 6.3 | 22 | 85 | 1020 | 300 | | 6.3 | 560 | 10 | 4700 | 706 |
| | 4 | 33 | 85 | 1020 | 300 | | 4 | 470 | 10 | 5400 | 376 |
| 5 × 5.4 | 20 | 10 | 85 | 1440 | 300 | 4 | 560 | 10 | 5400 | 448 | |
| | 16 | 15 | 85 | 1440 | 300 | 2.5 | 470 | 10 | 5400 | 300 | |
| | 16 | 22 | 85 | 1440 | 300 | 2.5 | 560 | 10 | 5400 | 300 | |
| | 10 | 33 | 85 | 1500 | 300 | 2.5 | 820 | 10 | 5400 | 410 | |
| | 6.3 | 47 | 85 | 1500 | 300 | 2.5 | 1000 | 10 | 5400 | 500 | |
| | 4 | 39 | 85 | 1500 | 300 | 8 × 7.7 | 25 | 10 | 28 | 3100 | 300 |
| | 4 | 68 | 85 | 1800 | 300 | | 20 | 33 | 28 | 3100 | 300 |
| 6.3 × 5.4 | 25 | 6.8 | 28 | 1800 | 300 | | 20 | 47 | 28 | 3100 | 300 |
| | 25 | 27 | 28 | 2400 | 300 | | 16 | 56 | 15 | 4700 | 300 |
| | 25 | 33 | 28 | 2400 | 300 | | 16 | 82 | 15 | 4700 | 300 |
| | 20 | 22 | 28 | 2500 | 300 | | 16 | 270 | 15 | 4700 | 864 |
| | 20 | 27 | 28 | 2500 | 300 | | 10 | 120 | 15 | 4700 | 300 |
| | 16 | 39 | 28 | 1820 | 300 | | 10 | 150 | 15 | 4700 | 300 |
| | 16 | 47 | 28 | 2400 | 300 | | 6.3 | 220 | 10 | 4700 | 300 |
| | 16 | 68 | 28 | 2400 | 300 | | 4 | 150 | 10 | 4700 | 300 |
| | 16 | 82 | 28 | 2400 | 300 | | 4 | 330 | 10 | 5400 | 300 |
| | 16 | 100 | 28 | 2400 | 320 | | 4 | 470 | 10 | 5400 | 376 |
| | 10 | 47 | 18 | 1800 | 300 | | 4 | 560 | 10 | 5400 | 448 |
| | 10 | 56 | 18 | 1800 | 300 | | 2.5 | 470 | 10 | 5400 | 300 |
| | 10 | 120 | 18 | 2400 | 300 | 2.5 | 560 | 10 | 5400 | 300 | |
| | 6.3 | 82 | 18 | 1800 | 300 | 2.5 | 820 | 10 | 5400 | 410 | |
| 6.3 | 100 | 18 | 1950 | 300 | 2.5 | 1000 | 10 | 5400 | 500 | | |
| 8 × 9.5 | 6.3 | 120 | 18 | 2780 | 300 | 16 | 270 | 13 | 5100 | 864 | |
| | 6.3 | 220 | 18 | 3100 | 300 | 16 | 330 | 13 | 5100 | 1056 | |
| | 4 | 150 | 18 | 1950 | 300 | 6.3 | 470 | 10 | 5400 | 592 | |
| | 4 | 220 | 18 | 2390 | 300 | 6.3 | 560 | 10 | 5700 | 706 | |
| | 4 | 330 | 18 | 3300 | 300 | 6.3 | 820 | 10 | 5700 | 1033 | |
| | 2.5 | 220 | 18 | 3300 | 300 | 4 | 470 | 10 | 5900 | 376 | |

| 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.) |
|-----------|--------|---------|---------------|-----------------------|----------------------------|-----------|--------|---------|---------------|-----------------------|----------------------------|
| 8×9.5 | 4 | 560 | 10 | 6100 | 448 | 10×10.5 | 25 | 56 | 28 | 3800 | 300 |
| | 4 | 820 | 10 | 6100 | 656 | | 25 | 100 | 28 | 3900 | 500 |
| | 4 | 1000 | 10 | 6100 | 800 | | 25 | 150 | 28 | 4320 | 750 |
| | 2.5 | 470 | 10 | 6100 | 300 | | 20 | 150 | 28 | 4700 | 600 |
| | 2.5 | 560 | 10 | 6100 | 300 | | 20 | 220 | 28 | 4700 | 880 |
| | 2.5 | 820 | 10 | 6100 | 410 | | 20 | 270 | 28 | 4700 | 1080 |
| | 2.5 | 1000 | | 6100 | 500 | | 20 | 330 | 28 | 4700 | 1320 |
| | 2.5 | 1200 | 10 | 6100 | 600 | | 20 | 390 | 28 | 4700 | 1560 |
| 8×10.5 | 25 | 33 | 28 | 2980 | 300 | 16 | 330 | 13 | 4720 | 1056 | |
| | 20 | 100 | 28 | 3320 | 400 | 16 | 390 | 13 | 5400 | 1248 | |
| | 16 | 180 | 13 | 5100 | 576 | 16 | 470 | 13 | 5400 | 1504 | |
| | 16 | 220 | 13 | 5100 | 704 | 10 | 470 | 13 | 5400 | 940 | |
| | 16 | 270 | 13 | 5100 | 864 | 10 | 560 | 13 | 5400 | 1120 | |
| | 16 | 330 | 13 | 5100 | 1056 | 6.3 | 820 | 10 | 6100 | 1033 | |
| | 10 | 330 | 13 | 5100 | 660 | 4 | 1000 | 10 | 6100 | 800 | |
| | 6.3 | 470 | 10 | 5700 | 592 | 4 | 1200 | 10 | 6100 | 960 | |
| | 6.3 | 560 | 10 | 6100 | 706 | 2.5 | 1000 | 10 | 6100 | 500 | |
| | 6.3 | 820 | 10 | 6100 | 1033 | 2.5 | 1200 | 10 | 6100 | 600 | |
| | 4 | 560 | 10 | 6100 | 448 | 2.5 | 1500 | 10 | 6100 | 750 | |
| | 4 | 680 | 10 | 6100 | 544 | 25 | 150 | 28 | 3900 | 750 | |
| | 4 | 820 | 10 | 6100 | 656 | 25 | 220 | 28 | 3900 | 1100 | |
| | 4 | 1000 | 10 | 6100 | 800 | 20 | 150 | 28 | 3900 | 600 | |
| | 2.5 | 680 | 10 | 6100 | 340 | 20 | 220 | 28 | 3900 | 880 | |
| | 2.5 | 820 | 10 | 6100 | 410 | 20 | 270 | 28 | 3900 | 1080 | |
| 2.5 | 1000 | 10 | 6100 | 500 | 20 | 330 | 28 | 3900 | 1320 | | |
| 2.5 | 1200 | 10 | 6100 | 600 | 20 | 390 | 28 | 3900 | 1560 | | |
| 8×12.5 | 25 | 100 | 28 | 3900 | 500 | 20 | 470 | 2 | 3900 | 1880 | |
| | 20 | 100 | 28 | 3900 | 400 | 16 | 330 | 13 | 5400 | 1056 | |
| | 20 | 150 | 28 | 3900 | 600 | 16 | 390 | 13 | 5400 | 1248 | |
| | 16 | 220 | 13 | 5100 | 704 | 16 | 470 | 13 | 5400 | 1504 | |
| | 16 | 270 | 13 | 5100 | 864 | 16 | 560 | 13 | 5400 | 1792 | |
| | 16 | 330 | 13 | 5100 | 1056 | 10 | 560 | 13 | 5400 | 1120 | |
| | 16 | 390 | 13 | 5100 | 1248 | 10 | 680 | 13 | 5400 | 1360 | |
| | 10 | 330 | 13 | 5400 | 660 | 6.3 | 820 | 10 | 6100 | 1033 | |
| | 10 | 390 | 13 | 5400 | 780 | 6.3 | 1000 | 10 | 6100 | 1260 | |
| | 10 | 470 | 13 | 5400 | 940 | 4 | 1000 | 10 | 6100 | 800 | |
| | 6.3 | 820 | 10 | 6100 | 1033 | 4 | 1200 | 10 | 6100 | 960 | |
| | 6.3 | 1000 | 10 | 6100 | 1260 | 4 | 1500 | 10 | 6100 | 1200 | |
| | 2.5 | 820 | 10 | 6100 | 410 | 2.5 | 1000 | 10 | 6100 | 500 | |
| | 2.5 | 1000 | 10 | 6100 | 500 | 2.5 | 1200 | 10 | 6100 | 600 | |
| | 2.5 | 1200 | 10 | 6100 | 600 | 2.5 | 1500 | 10 | 6100 | 750 | |
| | 2.5 | 1500 | 10 | 6100 | 750 | 2.5 | 2200 | 10 | 6100 | 1100 | |

ESR(100KHZ to 300KHZ)