

RC Series

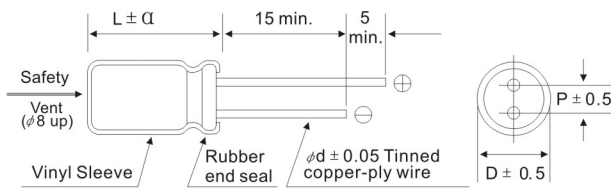
- Low impedance type
- For switching power supply use
- RoHS Compliant



规格表 SPECIFICATIONS

| 项目 Items | 特性参数 Characteristics | | | | | | | | | | | | | |
|--|---|--|------|------|------|------|------------|-------------------------------|------|-----------|------|------|------|---|
| 使用温度范围 Category Temperature Range | -55 ~ +105°C(6.3 ~ 100V) -40 ~ +105°C(160 ~ 400V) -25 ~ +105°C(450 ~ 500V) | | | | | | | | | | | | | |
| 额定工作电压范围 Rated Voltage Range | 6.3 ~ 500V | | | | | | | | | | | | | |
| 静电容量允许偏差 Capacitance Tolerance | ±20%(M) (at 20°C, 120Hz) | | | | | | | | | | | | | |
| 漏电流 Leakage Current | 6.3 ~ 100V | | | | | | 160 ~ 500V | | | | | | | |
| | I ≤ 0.03CV or 4 µA, Which is greater after application of rated Voltage for 1 minute. 施加额定工作电压1分钟后读数, 二者取大值。 I ≤ 0.01CV or 3 µA, Which is greater application of rated Voltage after 2 minutes. 施加额定工作电压2分钟后读数, 二者取大值。 | | | | | | | | | | | | | |
| | Time CV After 1minute 1分钟读数 | | | | | | | | | | | | | |
| | CV After 5minutes 5分钟读数 | | | | | | | | | | | | | |
| 损耗角正切值 tan δ Dissipation Factor | Rated voltage(V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 ~ 250 | 400 | 450 | 500 | |
| | tan δ (Max.) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.20 | 0.24 | 0.24 | 0.24 | |
| | 标称容量超过1000 µF, 则每增加1000 µF, 损耗角正切值增加0.02. When nominal capacitance exceeds 1000 µF, add 0.02 to the value above for each 1000 µF increase. (at 20°C, 120Hz) | | | | | | | | | | | | | |
| 低温特性 Low temperature Characteristics (Max. Impedance Ratio) | 电容器低温的阻抗比值, 不应超过下表所列出的值 Impedance ratio values must not exceed values listed in below table. | | | | | | | | | | | | | |
| | Rated voltage(V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 ~ 250 | 400 | 450 | 500 | |
| | Z(-25°C)/Z(+20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 5 | 6 | 8 |
| 耐久性 Endurance | 105°C 施加额定工作电压和额定纹波电流经下表规定时间, 恢复到20°C后, 产品性能应满足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after application of rated voltage with rated ripple current for the specified period of time at 105°C. | | | | | | | | | | | | | |
| | Time for 6.3 ~ 100V | Φ5 ~ Φ8 : 2000 hours Φ10 and larger : 3000 hours | | | | | | | | | | | | |
| | Time for 160 ~ 500V | Φ6.3: 3000 hours Φ10 and larger : 5000 hours | | | | | | | | | | | | |
| | Capacitance change | ≅ ±20% of the initial value | | | | | | | | | | | | |
| | D.F.(tan δ) | ≅ 200% of the specified value | | | | | | | | | | | | |
| | Leakage current | ≅ The specified value | | | | | | | | | | | | |
| 高温储存特性 Shelf Life | 105°C 放置1000小时, 恢复到20°C后, 产品性能应满足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied. | | | | | | | | | | | | | |
| | Rated voltage | 6.3 ~ 100V | | | | | | 160 ~ 500V | | | | | | |
| | Capacitance change | ≅ ±20% of the initial value | | | | | | ≅ ±20% of the initial value | | | | | | |
| | D.F.(tan δ) | ≅ 200% of the specified value | | | | | | ≅ 200% of the specified value | | | | | | |
| | Leakage current | ≅ The specified value | | | | | | ≅ 500% of the specified value | | | | | | |

外形图 DIMENSIONS (mm)



| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ΦD | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 | 20 | 22 |
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10 | 10 |
| φd | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 |

| | |
|---|--------------|
| α | (L < 20) 1.5 |
| | (L ≥ 20) 2.0 |

纹波电流修正系数 RATED RIPPLE CURRENT COEFFICIENT

- 频率系数 Frequency Coefficient

| Rated Voltage(V) | Capacitance(UF) | Frequency(Hz) | | | |
|------------------|-----------------|---------------|------|------|------|
| | | 120 | 1K | 10K | 100K |
| 6.3~100 | 5.6~33UF | 0.42 | 0.70 | 0.90 | 1.00 |
| | 39~270UF | 0.50 | 0.73 | 0.92 | 1.00 |
| | 330~680UF | 0.55 | 0.77 | 0.94 | 1.00 |
| | 820~1800UF | 0.60 | 0.80 | 0.96 | 1.00 |
| | 2200~6800UF | 0.70 | 0.85 | 0.98 | 1.00 |
| 160~500V | 2.2~4.7UF | 0.20 | 0.40 | 0.80 | 1.00 |
| | 6.8~10UF | 0.30 | 0.60 | 0.90 | 1.00 |
| | 22~100UF | 0.50 | 0.80 | 0.90 | 1.00 |

RC Series

■ 尺寸與最大紋波電流一覽表 STANDARD RATINGS

| WV(V) cap(μF) | 6.3(0J) | | | | 10(1A) | | | | 16(1C) | | | | 25(1E) | | | |
|------------------|---------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| 4.7 | | | | | | | | | | | | | 5×11 | 2.8 | 7.0 | 100 |
| 10 | | | | | | | | | 5×11 | 2.0 | 3.5 | 125 | 5×11 | 1.5 | 3.0 | 125 |
| 22 | | | | | 5×11 | 1.0 | 2.0 | 150 | 5×11 | 1.0 | 2.0 | 150 | 5×11 | 0.9 | 1.9 | 150 |
| 33 | 5×11 | 1.0 | 2.0 | 150 | 5×11 | 1.0 | 2.0 | 150 | 5×11 | 1.0 | 2.0 | 150 | 5×11 | 0.9 | 1.9 | 150 |
| 47 | 5×11 | 1.0 | 2.0 | 150 | 5×11 | 1.0 | 2.0 | 150 | 5×11 | 0.5 | 1 | 150 | 5×11 | 0.5 | 1.0 | 150 |
| 100 | 5×11 | 0.55 | 1.0 | 165 | 5×11 | 0.50 | 1.0 | 165 | 6.3×11 | 0.25 | 0.5 | 290 | 6.3×11 | 0.25 | 0.5 | 290 |
| 220 | 6.3×11 | 0.45 | 0.67 | 275 | 6.3×11 | 0.35 | 0.5 | 275 | 8×12 | 0.18 | 0.36 | 410 | 6.3×12 | 0.3 | 0.24 | 410 |
| 330 | 6.3×11 | 0.26 | 0.53 | 295 | 8×12 | 0.18 | 0.36 | 470 | 8×12 | 0.16 | 0.24 | 470 | 10×13 | 0.09 | 0.18 | 670 |
| 470 | 8×12 | 0.18 | 0.35 | 410 | 8×12 | 0.12 | 0.24 | 560 | 10×13 | 0.09 | 0.18 | 740 | 10×16 | 0.068 | 0.136 | 950 |
| 1,000 | 10×13 | 0.09 | 0.18 | 730 | 10×16 | 0.068 | 0.136 | 1050 | 10×20 | 0.052 | 0.104 | 1230 | 10×20 | 0.045 | 0.074 | 1450 |
| 2,200 | 13×20 | 0.045 | 0.09 | 1455 | 13×20 | 0.038 | 0.076 | 1670 | 13×25 | 0.032 | 0.06 | 1960 | 16×26 | 0.022 | 0.045 | 2520 |
| 3,300 | 13×20 | 0.038 | 0.075 | 1,650 | 13×25 | 0.03 | 0.061 | 1,950 | 16×26 | 0.022 | 0.044 | 2,520 | 16×32 | 0.019 | 0.038 | 3,020 |
| 4,700 | 16×26 | 0.03 | 0.06 | 2,310 | 16×26 | 0.022 | 0.045 | 2,310 | 16×32 | 0.019 | 0.038 | 3,020 | 18×36 | 0.015 | 0.033 | 3,720 |
| 6,800 | 16×26 | 0.017 | 0.034 | 2,880 | 16×32 | 0.02 | 0.041 | 3,050 | 18×36 | 0.015 | 0.035 | 3,720 | 18×40 | 0.034 | 0.103 | 4,087 |
| 10,000 | 16×32 | 0.017 | 0.034 | 3,160 | 18×36 | 0.016 | 0.032 | 3,250 | 18×40 | 0.015 | 0.035 | 3,810 | | | | |
| 15,000 | 18×36 | 0.015 | 0.030 | 3,690 | | | | | | | | | | | | |

| WV(V) cap(μF) | 35(1V) | | | | 50(1H) | | | | 63(1J) | | | | 100(2A) | | | |
|------------------|--------|-------|-------|-------|--------|-------|------|-------|--------|-------|------|-------|---------|-------|------|-------|
| 0.47 | | | | | 5×11 | 6.0 | 21.0 | 68 | | | | | 5×11 | 8.0 | 28.0 | 68 |
| 1.0 | | | | | 5×11 | 5.0 | 15.0 | 80 | | | | | 5×11 | 6.0 | 22.0 | 80 |
| 2.2 | | | | | 5×11 | 4.0 | 12.0 | 90 | | | | | 5×11 | 5.5 | 21.0 | 90 |
| 3.3 | | | | | 5×11 | 3.2 | 10.5 | 95 | | | | | 5×11 | 4.5 | 17.0 | 95 |
| 4.7 | 5×11 | 4.2 | 5.0 | 110 | 5×11 | 2.7 | 8.5 | 110 | 5×11 | 3.0 | 12.0 | 110 | 6.3×11 | 4.0 | 14.0 | 130 |
| 10 | 5×11 | 1.2 | 2.5 | 145 | 5×11 | 2.0 | 2.5 | 145 | 5×11 | 2.0 | 8.0 | 145 | 6.3×11 | 3.2 | 4.2 | 180 |
| 22 | 5×11 | 0.8 | 1.8 | 170 | 5×11 | 1.5 | 1.8 | 170 | 6.3×11 | 1.0 | 2.0 | 240 | 8×12 | 2.50 | 2.4 | 285 |
| 33 | 5×11 | 0.5 | 1.0 | 175 | 6.3×11 | 1.00 | 1.8 | 250 | 6.3×11 | 0.9 | 1.8 | 250 | 10×13 | 2.00 | 1.8 | 385 |
| 47 | 6.3×11 | 0.40 | 0.8 | 260 | 6.3×11 | 0.80 | 0.9 | 260 | 8×12 | 0.85 | 1.6 | 305 | 10×16 | 1.50 | 1.1 | 510 |
| 100 | 6.3×11 | 0.23 | 0.6 | 286 | 8×12 | 0.63 | 0.44 | 490 | 10×13 | 0.27 | 0.65 | 535 | 13×20 | 0.80 | 0.55 | 900 |
| 220 | 10×13 | 0.09 | 0.19 | 730 | 10×16 | 0.088 | 0.18 | 820 | 10×20 | 0.13 | 0.26 | 860 | 16×26 | 0.090 | 0.32 | 1,450 |
| 330 | 10×16 | 0.068 | 0.136 | 860 | 10×20 | 0.073 | 0.15 | 930 | 13×20 | 0.09 | 0.18 | 1010 | 16×26 | 0.090 | 0.31 | 1,550 |
| 470 | 10×20 | 0.052 | 0.105 | 1056 | 10×20 | 0.12 | 0.2 | 1,230 | 13×20 | 0.087 | 0.11 | 1,520 | 16×32 | 0.060 | 0.21 | 1,980 |
| 1,000 | 13×25 | 0.031 | 0.06 | 1,870 | 13×25 | 0.07 | 0.14 | 1,960 | 16×32 | 0.036 | 0.07 | 2,270 | | | | |
| 2,200 | 16×32 | 0.019 | 0.038 | 2,530 | | | | | | | | | | | | |
| 3,300 | 18×36 | 0.025 | 0.032 | 3,390 | | | | | | | | | | | | |
| 4,700 | 18×40 | 0.016 | 0.032 | 4,130 | | | | | | | | | | | | |

Rated ripple current : (mArms) at 105°C,100KHz
 Impedance : (Ω max.) at -10°C,100KHz
 Impedance : (Ω max.) at 20°C,100KHz
 Case size : ΦD×L(mm)

| WV(V) cap(μF) | 160(2C) | | 200(2D) | | 250(2E) | |
|------------------|---------|-------|---------|-------|---------|-------|
| 4.7 | | | | | 6.3×12 | 108 |
| 10 | 8×14 | 350 | 8×16 | 350 | 8×14 | 350 |
| 22 | 10×16 | 450 | 10×16 | 450 | 10×16 | 450 |
| 33 | 10×20 | 540 | 10×20 | 540 | 10×20 | 540 |
| 47 | 13×20 | 650 | 13×20 | 650 | 13×20 | 650 |
| 100 | 10×40 | 705 | 16×26 | 1,180 | 16×26 | 1180 |
| 220 | 18×32 | 1,570 | 18×35 | 1,770 | 18×40 | 1,895 |

| WV(V) cap(μF) | 400(2G) | | 450(2W) | | 500(2H) | |
|------------------|---------|------|---------|------|---------|-----|
| 2.2 | 6.3×12 | 45 | 8×12 | 50 | | |
| 3.3 | 8×12 | 68 | 8×12 | 49 | | |
| 4.7 | 8×12 | 70 | 10×16 | 120 | | |
| 10 | 10×16 | 420 | 10×20 | 288 | 13×17 | 192 |
| 22 | 13×20 | 520 | 13×25 | 403 | 13×25 | 382 |
| 33 | 13×25 | 625 | 16×26 | 560 | 18×21 | 560 |
| 47 | 16×26 | 663 | 18×26 | 610 | 18×26 | 580 |
| 68 | 18×26 | 920 | 18×32 | 630 | 20×35 | 680 |
| 82 | 18×32 | 1020 | 18×32 | 650 | 22×35 | 650 |
| 100 | 18×35 | 1033 | 18×40 | 890 | 22×35 | 715 |
| 120 | 18×40 | 1130 | 18×40 | 1020 | | |
| 150 | 18×40 | 1145 | | | | |

Rated Ripple current : (mArms) at 105°C,100KHz
 Case Size: ΦD×L(mm)

RC Series

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