

**RC Series**

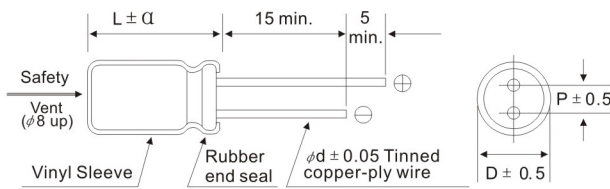
- Low impedance type
- For switching power supply use
- RoHS Compliant



**规格表 SPECIFICATIONS**

| 项目 Items   | 特性参数 Characteristics  |  |                        |      |      |      |            |                               |      |           |      |      |      |  |
|--|---|--|------------------------|------|------|------|------------|-------------------------------|------|-----------|------|------|------|--|
| 使用温度范围<br>Category<br>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<br>Rated Voltage Range                                      | 6.3 ~ 500V  |  |                        |      |      |      |            |                               |      |           |      |      |      |  |
| 静电容量允许偏差<br>Capacitance Tolerance                                    | ±20%(M) (at 20°C, 120Hz)  |  |                        |      |      |      |            |                               |      |           |      |      |      |  |
| 漏电流<br>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。<br>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  |  | After 1minute<br>1分钟读数 |      |      |      |            | After 5minutes<br>5分钟读数       |      |           |      |      |      |  |
|  | CV  |  | I=0.1CV+40             |      |      |      |            | I=0.03CV+15                   |      |           |      |      |      |  |
| 损耗角正切值tan δ<br>Dissipation Factor                                    | I:漏电流 (μA)、C: 静电容量 (μF)、额定电压 (V)  |  |                        |      |      |      |            |                               |      |           |      |      |      |  |
|  | 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.<br>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<br>Low temperature<br>Characteristics<br>(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         | 5    | 6    | 8    |  |
|  | Z(-55°C)/Z(+20°C)   | 8  | 6                      | 4    | 3    | 3    | 3          | 3                             | 3    | 6         | 6    | -    | -    |  |
| 耐久性<br>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<br>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<br>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<br>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) | Frequency(Hz)   |      |      |      |      |
|------------------|-----------------|------|------|------|------|
|                  | Capacitance(UF) | 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)<br>cap(μF) | 6.3(0J) |       |       |       | 10(1A) |       |       |       | 16(1C) |       |       |       | 25(1E) |       |       |       |     |
|------------------|---------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-----|
| 4.7              |         |       |       |       |        |       |       |       |        |       |       |       |        |       |       |       |     |
| 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)<br>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)<br>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)<br>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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