

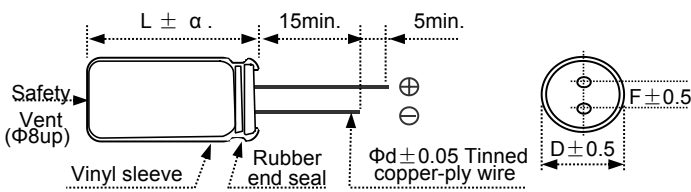
**RG Series**

- Low impedance, downsized
- Power Supply Output, 105°C 6000~10000hours
- RoHS2.0 Compliant

◆ 规格表 Specifications

| 项目 Items  | 特性参数 Characteristics   |                                       |      |      |      |      |                                       |      |      |      |  |                 |
|---|--|---------------------------------------|------|------|------|------|---------------------------------------|------|------|------|--|-----------------|
| 使用温度范围<br>Category<br>Temperature Range   | -40 ~ +105°C   |                                       |      |      |      |      |                                       |      |      |      |  |                 |
| 额定工作电压范围<br>Rated Voltage Range   | 6.3 ~ 100V.DC  |                                       |      |      |      |      |                                       |      |      |      |  |                 |
| 静电容量允许偏差<br>Capacitance Tolerance   | ±20%(M) (at 20°C, 120Hz)   |                                       |      |      |      |      |                                       |      |      |      |  |                 |
| 漏电流<br>Leakage Current  | I ≤ 0.01CV or 3μA, 二者取最大值 (施加额定工作电压2分钟后) Whichever is greater (After 2 minutes application of rated voltage)<br>Note: I=Max.leakage current (μA), C=Nominal capacitance(μF), V=Rated voltage(V) (at 20°C)  |                                       |      |      |      |      |                                       |      |      |      |  |                 |
| 损耗角正切值 tanδ<br>Dissipation Factor   | Rated voltage(V)   | 6.3                                   | 10   | 16   | 25   | 35   | 50                                    | 63   | 80   | 100  |  |                 |
|   | tanδ (Max.)  | 0.22                                  | 0.19 | 0.16 | 0.14 | 0.12 | 0.10                                  | 0.09 | 0.09 | 0.08 |  |                 |
| 标称容量超过1000uF,则每增加1000uF,损耗角正切值增加0.02<br>When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (at 20°C, 120Hz) |  |                                       |      |      |      |      |                                       |      |      |      |  |                 |
| 低温特性<br>Low Temperature Characteristics<br>(Max.Impedance Ratio)  | 阻抗比值不得超过下表中列出的值 The impedance ratio shall not exceed the values listed in the below table.   |                                       |      |      |      |      |                                       |      |      |      |  |                 |
|   | Rated voltage(V)   | 6.3                                   | 10   | 16   | 25   | 35   | 50                                    | 63   | 80   | 100  |  |                 |
|   | Z(-25°C)/Z(+20°C)  | 4                                     | 3    | 2    | 2    | 2    | 2                                     | 2    | 2    | 2    |  |                 |
| Z(-40°C)/Z(+20°C) 8 6 4 3 3 3 3 3 3 3 (at 120Hz)  |  |                                       |      |      |      |      |                                       |      |      |      |  |                 |
| 耐久性<br>Endurance  | 在105°C环境中, 不超过额定电压的范围内叠加最大允许纹波电流, 连续加载右表时间, 经恢复到20°C后, 电容器满足以下各项要求。<br>The following specifications shall be satisfied when the capacitors are restored to 20°C after applied within maximum allowable ripple current and not over rated voltage range for the time in the table at 105°C. |                                       |      |      |      |      |                                       |      |      |      |  |                 |
|   | 额定电压 (Vdc)   | 6.3~10V                               |      |      |      |      | 16~100V                               |      |      |      |  | 时间 (hrs)        |
|   | Capacitance change   | ≅ ±30% of the initial value           |      |      |      |      | ≅ ±25% of the initial value           |      |      |      |  | Φ5 ~ Φ6.3: 6000 |
|   | D.F.(tanδ)   | ≅ 200% of the initial specified value |      |      |      |      | ≅ 200% of the initial specified value |      |      |      |  | Φ8 ~ Φ10: 8000  |
|   | Leakage current  | ≅ The initial specified value         |      |      |      |      | ≅ The initial specified value         |      |      |      |  | ≥ Φ13: 10000    |
| 高温储存特性<br>Shelf Life  | 在105°C环境中, 不施加电压条件下储存1000小时, 经恢复到20°C后, 电容器满足以下各项要求。<br>The following specifications shall be satisfied when the capacitors are restored at 20°C after exposing them for 1000 hours at 105°C without voltage applied.  |                                       |      |      |      |      |                                       |      |      |      |  |                 |
|   | Capacitance change   | ≅ ±25% of the initial value           |      |      |      |      |                                       |      |      |      |  |                 |
|   | D.F.(tanδ)   | ≅ 200% of the initial specified value |      |      |      |      |                                       |      |      |      |  |                 |
|   | Leakage current  | ≅ 200% of the initial specified value |      |      |      |      |                                       |      |      |      |  |                 |

◆ 尺寸图 (单位: mm) DIMENSIONS (Unit:mm)



|    |     |     |         |     |     |     |     |
|----|-----|-----|---------|-----|-----|-----|-----|
| ΦD | 5   | 6.3 | 8       | 10  | 13  | 16  | 18  |
| F  | 2.0 | 2.5 | 3.5     | 5.0 | 5.0 | 7.5 | 7.5 |
| Φd | 0.5 | 0.5 | 0.5/0.6 | 0.6 | 0.6 | 0.8 | 0.8 |

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

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

● 频率系数 Frequency Coefficient

| Capacitance(μF) | Frequency(Hz) |      |      |      |
|-----------------|---------------|------|------|------|
|                 | 120           | 1k   | 10k  | 100k |
| 22 ~ 180        | 0.40          | 0.75 | 0.90 | 1.00 |
| 220 ~ 560       | 0.50          | 0.85 | 0.94 | 1.00 |
| 680 ~ 1,800     | 0.60          | 0.87 | 0.95 | 1.00 |
| 2,200 ~ 3,900   | 0.75          | 0.90 | 0.95 | 1.00 |
| 4,700 ~         | 0.85          | 0.95 | 0.98 | 1.00 |

**RG Series**

◆ 标准品一览表 Standard Ratings

| WV(V)  | Cap. (μF) | Case size ΦD×L (mm) | Impedance (Ω) max. 20°C/100kHz | Maximum allowable ripple current at 105°C /100kHz |
|--------|-----------|---------------------|--------------------------------|---|
| 6.3    | 180       | 5X11                | 0.29                           | 340   |
|        | 390       | 6.3X11              | 0.15                           | 540   |
|        | 820       | 8X12                | 0.087                          | 840   |
|        | 1,200     | 8X16                | 0.069                          | 1,050   |
|        | 1,200     | 10X13               | 0.064                          | 1,050   |
|        | 1,500     | 8X20                | 0.060                          | 1,210   |
|        | 1,800     | 10X16               | 0.049                          | 1,400   |
|        | 2,200     | 10X20               | 0.037                          | 1,650   |
|        | 2,700     | 10X25               | 0.037                          | 1,910   |
|        | 3,300     | 10X30               | 0.027                          | 2,230   |
|        | 3,900     | 13X20               | 0.027                          | 2,230   |
|        | 4,700     | 13X25               | 0.024                          | 2,530   |
|        | 6,800     | 13X30               | 0.021                          | 2,860   |
|        | 6,800     | 16X21               | 0.025                          | 2,610   |
|        | 8,200     | 13X35               | 0.018                          | 3,140   |
|        | 8200      | 18X21               | 0.021                          | 3000  |
|        | 10000     | 13X40               | 0.017                          | 3640  |
|        | 10,000    | 16X26               | 0.020                          | 3,140   |
|        | 12,000    | 16X32               | 0.016                          | 3,610   |
|        | 12,000    | 18X26               | 0.017                          | 3,530   |
| 15,000 | 16X35     | 0.014               | 4,080                          |   |
| 15,000 | 18X32     | 0.014               | 4,220                          |   |
| 18,000 | 16X40     | 0.013               | 4,220                          |   |
| 18,000 | 18X35     | 0.012               | 4,280                          |   |
| 22,000 | 18X40     | 0.011               | 4,700                          |   |
| 10     | 120       | 5X11                | 0.29                           | 350   |
|        | 330       | 6.3X11              | 0.15                           | 540   |
|        | 560       | 8X12                | 0.087                          | 840   |
|        | 820       | 8X16                | 0.069                          | 1,050   |
|        | 1,000     | 8X20                | 0.060                          | 1,210   |
|        | 1000      | 10X13               | 0.064                          | 1050  |
|        | 1200      | 10X16               | 0.049                          | 1400  |
|        | 1,800     | 10X20               | 0.037                          | 1,650   |
|        | 2,200     | 10X25               | 0.031                          | 1,910   |
|        | 2,700     | 10X30               | 0.027                          | 2,230   |
|        | 2,700     | 13X20               | 0.027                          | 2,230   |
|        | 3,900     | 13X25               | 0.024                          | 2,530   |
|        | 4,700     | 13X30               | 0.021                          | 2,860   |
|        | 4,700     | 16X21               | 0.025                          | 2,610   |
|        | 5,600     | 13X35               | 0.018                          | 3,140   |
|        | 6,800     | 12X40               | 0.017                          | 3,640   |
|        | 6,800     | 16X26               | 0.020                          | 3,140   |
|        | 6,800     | 18X21               | 0.021                          | 3,000   |
|        | 8,200     | 16X32               | 0.016                          | 3,610   |
|        | 8,200     | 18X26               | 0.017                          | 3,530   |
| 10000  | 16X35     | 0.014               | 4080                           |   |
| 10000  | 18X32     | 0.014               | 4220                           |   |
| 12,000 | 16X40     | 0.013               | 4,220                          |   |
| 12,000 | 18X35     | 0.012               | 4,280                          |   |
| 15,000 | 18X40     | 0.011               | 4,700                          |   |
| 16     | 120       | 5X11                | 0.29                           | 340   |
|        | 270       | 6.3X11              | 0.15                           | 540   |
|        | 470       | 8X12                | 0.087                          | 840   |
|        | 680       | 8X16                | 0.069                          | 1,050   |
|        | 680       | 10X13               | 0.064                          | 1,050   |
|        | 820       | 8X20                | 0.060                          | 1,210   |
|        | 1,000     | 10X16               | 0.049                          | 1,400   |
|        | 1,500     | 10X20               | 0.037                          | 1,650   |
|        | 1,800     | 10X25               | 0.031                          | 1,910   |
|        | 2,200     | 10X30               | 0.027                          | 2,230   |
|        | 2,200     | 13X20               | 0.027                          | 2,230   |
|        | 3,300     | 13X25               | 0.024                          | 2,530   |
|        | 3,900     | 13X30               | 0.021                          | 2,860   |
|        | 3,900     | 16X21               | 0.025                          | 2,610   |

| WV(V) | Cap. (μF) | Case size ΦD×L (mm) | Impedance (Ω) max. 20°C/100kHz | Maximum allowable ripple current at 105°C /100kHz |     |
|-------|-----------|---------------------|--------------------------------|---|-----|
| 16    | 4700      | 13X35               | 0.018                          | 3140  |     |
|       | 4,700     | 18X21               | 0.021                          | 3000  |     |
|       | 5,600     | 13X40               | 0.017                          | 3,640   |     |
|       | 5,600     | 16X26               | 0.020                          | 3,140   |     |
|       | 6,800     | 16X32               | 0.016                          | 3,610   |     |
|       | 6,800     | 18X26               | 0.017                          | 3,530   |     |
|       | 8,200     | 16X35               | 0.014                          | 4,080   |     |
|       | 8,200     | 18X32               | 0.014                          | 4,220   |     |
|       | 10,000    | 16X40               | 0.013                          | 4,220   |     |
|       | 10,000    | 18X35               | 0.012                          | 4,280   |     |
|       | 12,000    | 18X40               | 0.011                          | 4,700   |     |
|       | 25        | 82                  | 5X11                           | 0.29  | 340 |
|       |           | 150                 | 6.3X11                         | 0.15  | 540 |
|       |           | 330                 | 8X12                           | 0.087   | 840 |
| 390   |           | 8X16                | 0.039                          | 1,050   |     |
| 470   |           | 10X13               | 0.064                          | 1050  |     |
| 560   |           | 8X20                | 0.060                          | 1210  |     |
| 680   |           | 10X16               | 0.049                          | 1,400   |     |
| 1,000 |           | 10X20               | 0.037                          | 1,650   |     |
| 1,200 |           | 10X25               | 0.031                          | 1,910   |     |
| 1,500 |           | 10X30               | 0.027                          | 2,230   |     |
| 1,500 |           | 13X20               | 0.027                          | 2,230   |     |
| 2,200 |           | 13X25               | 0.024                          | 2,530   |     |
| 2,700 |           | 13X30               | 0.021                          | 2,860   |     |
| 2,700 |           | 16X21               | 0.025                          | 2,610   |     |
| 3,300 |           | 13X35               | 0.018                          | 3,140   |     |
| 3,300 |           | 18X21               | 0.021                          | 3,000   |     |
| 3,900 |           | 13X40               | 0.017                          | 3,640   |     |
| 3,900 |           | 16X26               | 0.020                          | 3,140   |     |
| 4,700 |           | 16X32               | 0.016                          | 3,610   |     |
| 4700  |           | 18X26               | 0.017                          | 3530  |     |
| 5600  | 16X35     | 0.016               | 4080                           |   |     |
| 6,800 | 16X40     | 0.013               | 4,220                          |   |     |
| 6,800 | 18X32     | 0.014               | 4,220                          |   |     |
| 8,200 | 18X35     | 0.012               | 4,280                          |   |     |
| 35    | 47        | 5X11                | 0.29                           | 340   |     |
|       | 100       | 6.3X11              | 0.15                           | 540   |     |
|       | 180       | 8X12                | 0.087                          | 840   |     |
|       | 270       | 8X16                | 0.069                          | 1,050   |     |
|       | 330       | 8X20                | 0.060                          | 1,210   |     |
|       | 330       | 10X13               | 0.064                          | 1,050   |     |
|       | 470       | 10X16               | 0.049                          | 1,400   |     |
|       | 680       | 10X20               | 0.037                          | 1,650   |     |
|       | 820       | 10X25               | 0.031                          | 1,910   |     |
|       | 1,000     | 10X30               | 0.027                          | 2,230   |     |
|       | 1000      | 13X20               | 0.027                          | 2230  |     |
|       | 1500      | 13X25               | 0.024                          | 2530  |     |
|       | 1,800     | 13X30               | 0.021                          | 2,860   |     |
|       | 1,800     | 16X21               | 0.025                          | 2,610   |     |
|       | 2,200     | 13X35               | 0.018                          | 3,140   |     |
|       | 2,200     | 18X21               | 0.021                          | 3,000   |     |
|       | 2,700     | 13X40               | 0.017                          | 3,640   |     |
|       | 2,700     | 16X26               | 0.020                          | 3,140   |     |
|       | 3,300     | 16X32               | 0.016                          | 3,610   |     |
|       | 3,300     | 18X26               | 0.017                          | 3,530   |     |
| 3,900 | 16X35     | 0.014               | 4,080                          |   |     |
| 4,700 | 16X40     | 0.013               | 4,220                          |   |     |
| 4,700 | 18X32     | 0.014               | 4,220                          |   |     |
| 5,600 | 18X35     | 0.012               | 4,280                          |   |     |
| 50    | 27        | 5X11                | 0.48                           | 238   |     |
|       | 56        | 6.3X11              | 0.20                           | 385   |     |
|       | 100       | 8X12                | 0.12                           | 620   |     |
|       | 150       | 8X16                | 0.093                          | 810   |     |
|       | 150       | 10X13               | 0.10                           | 810   |     |

**RG Series**

## ◆ 标准品一览表 Standard Ratings

| WV(V) | Cap. (μF) | Case size ΦD×L (mm) | Impedance (Ω) max. 20°C/100kHz | Maximum allowable ripple current at 105°C /100kHz |
|-------|-----------|---------------------|--------------------------------|---|
| 50    | 180       | 8X20                | 0.075                          | 980   |
|       | 220       | 10X16               | 0.069                          | 1100  |
|       | 270       | 10X20               | 0.050                          | 1,300   |
|       | 390       | 10X25               | 0.043                          | 1,600   |
|       | 470       | 10X30               | 0.038                          | 1,820   |
|       | 470       | 13X20               | 0.034                          | 1,820   |
|       | 680       | 13X25               | 0.030                          | 2,100   |
|       | 820       | 13X30               | 0.025                          | 2,450   |
|       | 820       | 16X21               | 0.028                          | 2,350   |
|       | 1,000     | 13X35               | 0.021                          | 2,800   |
|       | 1,000     | 18X21               | 0.025                          | 2,600   |
|       | 1,200     | 13X40               | 0.019                          | 3,100   |
|       | 1,200     | 16X26               | 0.024                          | 2,750   |
|       | 1,500     | 16X32               | 0.019                          | 3,150   |
|       | 1,500     | 18X26               | 0.021                          | 2,890   |
|       | 1,800     | 16X35               | 0.016                          | 3,550   |
|       | 2,200     | 16X40               | 0.014                          | 3,900   |
|       | 2,200     | 18X32               | 0.014                          | 3,800   |
| 2,700 | 18X35     | 0.013               | 4,100                          |   |
| 63    | 18        | 5X11                | 0.50                           | 220   |
|       | 33        | 6.3X11              | 0.25                           | 350   |
|       | 56        | 8X12                | 0.16                           | 530   |
|       | 82        | 8X16                | 0.12                           | 700   |
|       | 120       | 8X20                | 0.085                          | 880   |
|       | 120       | 10X13               | 0.11                           | 725   |
|       | 180       | 10X16               | 0.073                          | 1,050   |
|       | 220       | 10X20               | 0.055                          | 1,300   |
|       | 330       | 10X25               | 0.045                          | 1,550   |
|       | 390       | 10X30               | 0.040                          | 1,780   |
|       | 390       | 13X20               | 0.036                          | 1,780   |
|       | 560       | 13X25               | 0.030                          | 2,100   |
|       | 680       | 13X30               | 0.026                          | 2,415   |
|       | 680       | 16X21               | 0.028                          | 2,250   |
|       | 820       | 13X35               | 0.022                          | 2,700   |
|       | 820       | 18X21               | 0.028                          | 2,500   |
|       | 1,000     | 13X40               | 0.020                          | 3,000   |
|       | 1,000     | 16X26               | 0.025                          | 2,730   |
|       | 1,200     | 16X32               | 0.020                          | 3,000   |
|       | 1,200     | 18X26               | 0.022                          | 2,800   |
| 1,500 | 16X35     | 0.018               | 3,200                          |   |
| 1,500 | 18X32     | 0.018               | 3,300                          |   |
| 1,800 | 16X40     | 0.016               | 3,590                          |   |
| 1,800 | 18X35     | 0.017               | 3,570                          |   |
| 2,200 | 18X40     | 0.016               | 3,670                          |   |
| 80    | 12        | 5X11                | 0.80                           | 163   |
|       | 22        | 6.3X11              | 0.43                           | 260   |
|       | 39        | 8X12                | 0.18                           | 462   |

| WV(V) | Cap. (μF) | Case size ΦD×L (mm) | Impedance (Ω) max. 20°C/100kHz | Maximum allowable ripple current at 105°C /100kHz |
|-------|-----------|---------------------|--------------------------------|---|
| 80    | 56        | 8X16                | 0.14                           | 585   |
|       | 82        | 8X20                | 0.11                           | 735   |
|       | 82        | 10X13               | 0.14                           | 624   |
|       | 120       | 10X16               | 0.10                           | 780   |
|       | 180       | 10X20               | 0.075                          | 1,040   |
|       | 220       | 10X25               | 0.060                          | 1,170   |
|       | 270       | 10X30               | 0.053                          | 1,350   |
|       | 270       | 13X20               | 0.048                          | 1,430   |
|       | 390       | 13X25               | 0.039                          | 1,620   |
|       | 470       | 13X30               | 0.033                          | 1,950   |
|       | 470       | 16X21               | 0.036                          | 1,750   |
|       | 560       | 13X35               | 0.026                          | 2,250   |
|       | 560       | 18X21               | 0.032                          | 2,100   |
|       | 680       | 13X40               | 0.024                          | 2,450   |
|       | 680       | 16X26               | 0.028                          | 2,250   |
|       | 820       | 16X32               | 0.022                          | 2,400   |
|       | 820       | 18X26               | 0.027                          | 2,270   |
|       | 1,000     | 16X35               | 0.020                          | 2,600   |
|       | 1,200     | 16X40               | 0.018                          | 2,900   |
|       | 1,200     | 18X32               | 0.020                          | 2,550   |
| 1,500 | 18X35     | 0.018               | 3,050                          |   |
| 100   | 6.8       | 5X11                | 0.80                           | 163   |
|       | 15        | 6.3X11              | 0.43                           | 276   |
|       | 27        | 8X12                | 0.18                           | 462   |
|       | 39        | 8X16                | 0.14                           | 585   |
|       | 56        | 8X20                | 0.11                           | 735   |
|       | 56        | 10X13               | 0.14                           | 625   |
|       | 82        | 10X16               | 0.10                           | 780   |
|       | 100       | 10X20               | 0.075                          | 1,040   |
|       | 120       | 10X25               | 0.060                          | 1,170   |
|       | 150       | 10X30               | 0.053                          | 1,350   |
|       | 180       | 13X20               | 0.048                          | 1,430   |
|       | 220       | 13X25               | 0.039                          | 1,620   |
|       | 270       | 13X30               | 0.033                          | 1,950   |
|       | 270       | 16X21               | 0.036                          | 1,750   |
|       | 330       | 16X26               | 0.028                          | 2,250   |
|       | 390       | 13X35               | 0.026                          | 2,250   |
|       | 390       | 18X21               | 0.032                          | 2,100   |
|       | 470       | 13X40               | 0.024                          | 2,450   |
|       | 470       | 16X32               | 0.022                          | 2,400   |
|       | 560       | 16X35               | 0.020                          | 2,600   |
| 560   | 18X26     | 0.027               | 2,270                          |   |
| 680   | 16X40     | 0.018               | 2,900                          |   |
| 680   | 18X32     | 0.020               | 2,550                          |   |
| 820   | 18X35     | 0.018               | 3,050                          |   |
| 1000  | 18X40     | 0.017               | 3,510                          |   |

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化，中心温度每升温5°C寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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