

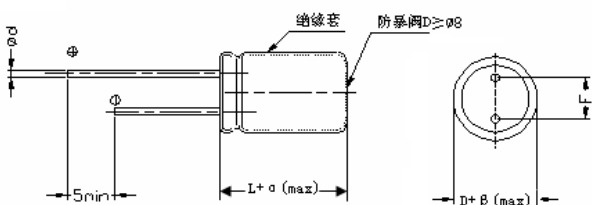
# GF

- 高频率，超低 ESR，寿命 2000~4000 小时，105°C  
Super Low ESR at high frequency, Life time:2000~4000 hours at 105°C
- 适用于 LED 照明驱动电源，电脑主板、开关电源、高保真音响，高分辨数码彩电等电子线路中  
Used in LED Lighting , main board ,switching power supply, hi-fi acoustics, numeral color-TV circuits etc.
- ROHS 指令已对应完毕。  
Adapted to the ROHS directive.

## 主要技术性能

| 项目 Item   | 特性 Performance Characteristics  |              |                    |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
|---|---|--------------|--------------------|-------|------|-------|-----------|-------|---------|---------|-----|---------|---------|------|-----------------|------|------|------|------|------|------|------|------|------|---|---|-----------------|---|---|---|---|---|---|---|---|--|--|--|
| 使用温度范围<br>Operating temperature range                               | -40 ~ +105°C  | -25 ~ +105°C |                    |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| 额定电压范围<br>Rated voltage range                                       | 6.3 ~ 100V  | 160 ~ 450V   |                    |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| 标称容量范围<br>Nominal capacitance range                                 | 1~ 18000μF  |              |                    |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| 标称容量允许偏差<br>Capacitance tolerance                                   | ±20% (120Hz, +20°C)   |              |                    |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| 漏电流<br>Leakage current  | $I \leq 0.01CV (\mu A)$ 或 $3\mu A$ 2 分钟 取较大者<br>(at 20°C, after 2 minutes) (Whichever is greater)   |              |                    |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| 损耗角正切值 (tg δ)<br>Dissipation factor<br>(+20°C, 11.50Hz)             | <table border="1"> <thead> <tr> <th>U<sub>R</sub> (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>400~450</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table> <p>容量大于 1000μF 者，每增加 1000μF，其损耗角正切值增加 0.02<br/>When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.</p>  |              | U <sub>R</sub> (V) | 6.3   | 10   | 16    | 25        | 35    | 50      | 63      | 100 | 160~250 | 400~450 | tg δ | 0.22            | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.20 | 0.24 |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| U <sub>R</sub> (V)  | 6.3   | 10           | 16                 | 25    | 35   | 50    | 63        | 100   | 160~250 | 400~450 |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| tg δ  | 0.22  | 0.19         | 0.16               | 0.14  | 0.12 | 0.10  | 0.09      | 0.08  | 0.20    | 0.24    |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| 温度特性<br>Temperature Characteristics<br>(Impedance ratio at 11.50Hz) | <table border="1"> <thead> <tr> <th>U<sub>R</sub> (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>5</td> <td>6</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>   |              | U <sub>R</sub> (V) | 6.3   | 10   | 16    | 25        | 35    | 50      | 63      | 100 | 160~250 | 400     | 450  | Z-25°C / Z+20°C | 4    | 3    | 2    | 2    | 2    | 2    | 2    | 2    | 3    | 5 | 6 | Z-40°C / Z+20°C | 8 | 6 | 6 | 4 | 3 | 3 | 3 | 3 |  |  |  |
| U <sub>R</sub> (V)  | 6.3   | 10           | 16                 | 25    | 35   | 50    | 63        | 100   | 160~250 | 400     | 450 |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| Z-25°C / Z+20°C   | 4   | 3            | 2                  | 2     | 2    | 2     | 2         | 2     | 3       | 5       | 6   |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| Z-40°C / Z+20°C   | 8   | 6            | 6                  | 4     | 3    | 3     | 3         | 3     |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| 耐久性<br>Load life  | <p>试验条件 Test conditions 持续时间 Duration:</p> <table border="1"> <thead> <tr> <th>φ D</th> <th>5~6.3</th> <th>8~10</th> <th>12.5~</th> </tr> </thead> <tbody> <tr> <td>Load life</td> <td>2000h</td> <td>3000h</td> <td>4000h</td> </tr> </tbody> </table> <p>+105°C 加额定电压，恢复 16 小时后：<br/>After applying rated voltage at +105°C and then resumed 16 hours:<br/>                     电容量变化率 Capacitance change : ±20% 初始测量值以内 ±20% of the initial measured value<br/>                     漏 电 流 Leakage current : ≤ 初始规定值 ≤ the initial specified value<br/>                     损耗角正切值 Dissipation factor : ≤ 2 倍初始规定值 ≤ 2 times of the initial specified value</p> |              | φ D                | 5~6.3 | 8~10 | 12.5~ | Load life | 2000h | 3000h   | 4000h   |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| φ D   | 5~6.3   | 8~10         | 12.5~              |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| Load life   | 2000h   | 3000h        | 4000h              |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |
| 高温贮存<br>Shelf life  | <p>+105°C, 1000 小时贮存后，恢复 16 小时后：<br/>After storage for 1000 hours at +105°C and then resumed 16 hours<br/>                     电容量变化率 Capacitance change : ±20% 初始测量值以内 ±20% of the initial measured value<br/>                     漏 电 流 Leakage current : ≤ 2 倍初始规定值 ≤ 2 times of the initial specified value<br/>                     损耗角正切值 Dissipation factor : ≤ 2 倍初始规定值 ≤ 2 times of the initial specified value</p>  |              |                    |       |      |       |           |       |         |         |     |         |         |      |                 |      |      |      |      |      |      |      |      |      |   |   |                 |   |   |   |   |   |   |   |   |  |  |  |

## 外形图及尺寸表 Case size



|   |     |         |     |     |      |       |
|---|-----|---------|-----|-----|------|-------|
| D | 5   | 6.3     | 8   | 10  | 12.5 | 16~18 |
| F | 2.0 | 2.5     | 3.5 | 5.0 | 5.0  | 7.5   |
| d | 0.5 | 0.5、0.6 | 0.6 | 0.6 | 0.8  |       |

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

|       |                |
|-------|----------------|
| β MAX | ( D < 20 ) 0.5 |
|       | ( D ≥ 20 ) 1.0 |

## 频率修正系数 Frequency coefficient

| Freq. (Hz)<br>CAP (μF) | 120  | 1K   | 10K  | 100K |
|------------------------|------|------|------|------|
| ~180                   | 0.40 | 0.75 | 0.90 | 1.00 |
| 220~560                | 0.50 | 0.85 | 0.94 | 1.00 |
| 680~1800               | 0.60 | 0.87 | 0.95 | 1.00 |
| 2200~3900              | 0.75 | 0.90 | 0.95 | 1.00 |
| 4700~18000             | 0.85 | 0.95 | 0.98 | 1.00 |

## 尺寸

| WV<br>CAP (μF) |     | 6.3V(0J) |       |        | 10V(1A) |       |        | 16V(1C) |       |        | 25V(1E) |       |        |
|----------------|-----|----------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|
|                |     | Size     | ESR   | Ripple | Size    | ESR   | Ripple | Size    | ESR   | Ripple | Size    | ESR   | Ripple |
| 2.2            | 2R2 |          |       |        |         |       |        |         |       |        | 5×11    | 1.500 | 80     |
| 4.7            | 4R7 |          |       |        |         |       |        |         |       |        | 5×11    | 1.200 | 90     |
| 10             | 100 |          |       |        |         |       |        | 5×11    | 1.300 | 90     | 5×11    | 0.650 | 95     |
| 22             | 220 |          |       |        |         |       |        | 5×11    | 0.650 | 120    | 5×11    | 1.950 | 125    |
| 47             | 470 |          |       |        |         |       |        | 5×11    | 0.450 | 130    |         |       |        |
| 82             | 820 |          |       |        |         |       |        |         |       |        | 6.3×11  | 0.200 | 345    |
| 100            | 101 | 5×11     | 0.300 | 220    | 5×11    | 0.280 | 280    | 5×11    | 0.260 | 200    | 6.3×11  | 0.190 | 345    |
|                |     |          |       |        | 6.3×11  | 0.250 | 340    | 6.3×11  | 0.230 | 345    |         |       |        |
| 120            | 121 |          |       |        |         |       |        | 6.3×11  | 0.225 | 345    | 8×11.5  | 0.117 | 645    |
| 150            | 151 |          |       |        | 6.3×11  | 0.198 | 345    | 6.3×11  | 0.220 | 345    | 8×11.5  | 0.117 | 645    |
|                |     |          |       |        |         |       |        | 8×11.5  | 0.117 | 645    |         |       |        |
| 180            | 181 | 6.3×11   | 0.198 | 345    | 6.3×11  | 0.198 | 345    | 6.3×11  | 0.220 | 345    | 8×11.5  | 0.117 | 645    |
|                |     |          |       |        |         |       |        | 8×11.5  | 0.117 | 645    |         |       |        |
| 220            | 221 | 6.3×11   | 0.198 | 345    | 6.3×11  | 0.198 | 345    | 6.3×11  | 0.198 | 420    | 8×11.5  | 0.117 | 645    |
|                |     |          |       |        |         |       |        | 8×11.5  | 0.117 | 645    | 8×16    | 0.100 | 820    |
| 270            | 271 | 6.3×11   | 0.198 | 345    | 6.3×11  | 0.220 | 345    | 8×11.5  | 0.117 | 645    | 8×11.5  | 0.130 | 645    |
|                |     |          |       |        | 8×11.5  | 0.117 | 645    |         |       |        | 10×12.5 | 0.072 | 870    |
| 330            | 331 | 6.3×11   | 0.198 | 345    | 6.3×11  | 0.198 | 345    | 8×11.5  | 0.117 | 645    | 8×11.5  | 0.078 | 645    |
|                |     | 8×11.5   | 0.117 | 645    | 8×11.5  | 0.117 | 645    |         |       |        | 10×12.5 | 0.072 | 870    |
| 390            | 391 | 8×11.5   | 0.117 | 645    | 8×11.5  | 0.117 | 645    | 8×11.5  | 0.117 | 645    | 8×16    | 0.068 | 980    |
|                |     |          |       |        |         |       |        | 10×12.5 | 0.072 | 870    | 10×12.5 | 0.070 | 880    |
| 470            | 471 | 6.3×11   | 0.198 | 345    | 6.3×11  | 0.105 | 380    | 8×11.5  | 0.093 | 720    | 8×16    | 0.068 | 840    |
|                |     | 8×11.5   | 0.117 | 645    | 8×11.5  | 0.090 | 500    | 10×12.5 | 0.072 | 870    | 10×12.5 | 0.068 | 990    |
| 560            | 561 | 8×11.5   | 0.117 | 645    | 8×11.5  | 0.090 | 645    | 8×14    | 0.080 | 800    | 8×20    | 0.065 | 1160   |
|                |     |          |       |        | 10×12.5 | 0.072 | 870    | 10×12.5 | 0.072 | 870    | 10×16   | 0.060 | 1210   |
| 680            | 681 | 8×11.5   | 0.117 | 645    | 8×11.5  | 0.085 | 645    | 8×16    | 0.078 | 845    | 10×16   | 0.060 | 1210   |
|                |     |          |       |        | 10×12.5 | 0.072 | 870    | 10×12.5 | 0.080 | 865    | 10×20   | 0.041 | 1405   |
| 820            | 821 | 8×11.5   | 0.105 | 645    | 8×16    | 0.078 | 845    | 8×16    | 0.060 | 880    | 10×20   | 0.041 | 1405   |
|                |     | 10×12.5  | 0.072 | 870    |         |       |        | 10×16   | 0.060 | 1210   |         |       |        |
| 1000           | 102 | 8×11.5   | 0.072 | 780    | 8×16    | 0.075 | 840    | 8×16    | 0.065 | 955    | 10×20   | 0.032 | 1820   |
|                |     | 10×12.5  | 0.072 | 870    | 10×12.5 | 0.070 | 845    | 10×16   | 0.060 | 1210   | 12.5×20 | 0.032 | 1905   |
|                |     |          |       |        | 10×16   | 0.054 | 1215   | 8×20    | 0.062 | 1055   |         |       |        |

|       |     |         |       |      |         |       |      |         |       |      |         |       |      |
|-------|-----|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|------|
| 1200  | 122 | 8×14    | 0.078 | 845  | 10×16   | 0.030 | 1300 | 10×20   | 0.046 | 1400 | 10×20   | 0.046 | 1850 |
|       |     | 10×12.5 | 0.072 | 870  | 10×20   | 0.041 | 1405 | 10×25   | 0.038 | 1820 | 12.5×20 | 0.032 | 1920 |
| 1500  | 152 | 8×16    | 0.069 | 845  | 10×16   | 0.054 | 1215 | 10×20   | 0.046 | 1400 | 10×25   | 0.042 | 1850 |
|       |     | 10×16   | 0.054 | 1225 | 10×20   | 0.041 | 1405 | 12.5×20 | 0.032 | 1905 | 12.5×20 | 0.032 | 2010 |
| 1800  | 182 | 10×20   | 0.046 | 1400 | 10×20   | 0.041 | 1405 | 10×25   | 0.038 | 1655 | 12.5×25 | 0.030 | 2125 |
|       |     |         |       |      | 12.5×20 | 0.032 | 1905 | 12.5×20 | 0.035 | 1910 | 16×20   | 0.032 | 2220 |
| 2200  | 222 | 10×20   | 0.046 | 1400 | 10×20   | 0.046 | 1400 | 12.5×20 | 0.035 | 1910 | 12.5×25 | 0.030 | 2125 |
|       |     | 10×25   | 0.043 | 1600 | 12.5×20 | 0.032 | 1905 | 12.5×25 | 0.027 | 2130 | 18×20   | 0.027 | 2503 |
| 2700  | 272 | 10×25   | 0.042 | 1650 | 10×25   | 0.042 | 1650 | 12.5×25 | 0.030 | 2150 | 16×25   | 0.025 | 2410 |
|       |     | 12.5×20 | 0.032 | 1906 | 12.5×20 | 0.035 | 1910 | 16×20   | 0.027 | 2480 | 16×30   | 0.021 | 2430 |
| 3300  | 332 | 10×25   | 0.035 | 1820 | 12.5×25 | 0.030 | 2125 | 12.5×30 | 0.023 | 2430 | 16×30   | 0.020 | 3035 |
|       |     | 12.5×20 | 0.032 | 1905 | 16×20   | 0.032 | 2220 | 18×20   | 0.024 | 2505 | 18×25   | 0.022 | 3050 |
| 3900  | 392 | 12.5×20 | 0.032 | 1905 | 12.5×35 | 0.020 | 2750 | 16×25   | 0.025 | 2560 | 16×35   | 0.018 | 3130 |
|       |     |         |       |      | 16×20   | 0.032 | 2220 | 18×20   | 0.025 | 2505 | 18×30   | 0.018 | 3610 |
| 4700  | 472 | 12.5×25 | 0.027 | 2130 | 12.5×25 | 0.027 | 2130 | 16×30   | 0.020 | 3035 | 18×35   | 0.017 | 3645 |
|       |     | 16×20   | 0.032 | 2215 |         |       |      | 18×25   | 0.022 | 2780 |         |       |      |
| 5600  | 562 | 12.5×30 | 0.023 | 2530 | 16×25   | 0.025 | 2560 | 16×35   | 0.018 | 3130 | 18×40   | 0.014 | 3790 |
|       |     | 16×20   | 0.032 | 2220 | 18×20   | 0.031 | 2505 | 18×30   | 0.018 | 3610 |         |       |      |
| 6800  | 682 | 12.5×40 | 0.017 | 2650 | 16×30   | 0.020 | 3035 | 16×40   | 0.018 | 3620 |         |       |      |
|       |     | 16×25   | 0.025 | 2560 | 18×25   | 0.022 | 2780 |         |       |      |         |       |      |
|       |     | 18×20   | 0.031 | 2505 |         |       |      |         |       |      |         |       |      |
| 8200  | 822 | 16×30   | 0.020 | 3035 | 16×35   | 0.018 | 3130 | 18×35   | 0.017 | 3645 |         |       |      |
|       |     |         |       |      | 18×30   | 0.018 | 3610 |         |       |      |         |       |      |
| 10000 | 103 | 16×35   | 0.018 | 3130 | 18×35   | 0.017 | 3645 | 18×40   | 0.014 | 3790 |         |       |      |
|       |     | 18×25   | 0.022 | 2780 |         |       |      |         |       |      |         |       |      |
| 12000 | 123 | 16×40   | 0.015 | 3895 | 18×40   | 0.014 | 3790 |         |       |      |         |       |      |
|       |     | 18×30   | 0.018 | 3610 |         |       |      |         |       |      |         |       |      |
| 15000 | 153 | 18×35   | 0.017 | 3645 |         |       |      |         |       |      |         |       |      |
| 18000 | 183 | 18×40   | 0.014 | 3790 |         |       |      |         |       |      |         |       |      |

| WV  |     | 35V(1V) |       |        | 50V(1H) |       |        | 63V(1J) |       |        | 100V(2A) |       |        |
|-----|-----|---------|-------|--------|---------|-------|--------|---------|-------|--------|----------|-------|--------|
|     |     | Size    | ESR   | Ripple | Size    | ESR   | Ripple | Size    | ESR   | Ripple | Size     | ESR   | Ripple |
| 1   | 010 |         |       |        | 5×11    | 2.900 | 80     |         |       |        |          |       |        |
| 2.2 | 2R2 | 5×11    | 1.800 | 85     | 5×11    | 2.500 | 90     |         |       |        |          |       |        |
| 3.3 | 3R3 |         |       |        | 5×11    | 2.000 | 100    |         |       |        |          |       |        |
| 4.7 | 4R7 | 5×11    | 0.850 | 120    | 5×11    | 1.700 | 105    |         |       |        | 5×11     | 1.800 | 105    |
| 10  | 100 |         |       |        | 5×11    | 1.700 | 105    |         |       |        |          |       |        |
| 15  | 150 |         |       |        |         |       |        |         |       |        | 6.3×11   | 0.864 | 300    |
| 22  | 220 | 5×11    | 0.650 | 180    | 5×11    | 1.20  | 160    | 6.3×11  | 0.960 | 260    | 8×11.5   | 0.750 | 370    |
|     |     |         |       |        | 6.3×11  | 0.360 | 220    |         |       |        |          |       |        |
| 27  | 270 |         |       |        |         |       |        | 6.3×11  | 0.960 | 260    | 8×11.5   | 0.454 | 370    |
| 33  | 330 | 6.3×11  | 0.370 | 240    | 6.3×11  | 0.270 | 300    | 6.3×11  | 0.864 | 300    | 8×11.5   | 0.454 | 370    |
| 39  | 390 |         |       |        | 6.3×11  | 0.270 | 300    | 8×11.5  | 0.454 | 460    | 8×16     | 0.324 | 460    |



| WV<br>CAP ( $\mu$ F ) |     | 160V (2C) |      |        | 200V (2D) |      |        | 250V(2E) |      |        | 400(2G) |      |        |
|-----------------------|-----|-----------|------|--------|-----------|------|--------|----------|------|--------|---------|------|--------|
|                       |     | Size      | ESR  | Ripple | Size      | ESR  | Ripple | Size     | ESR  | Ripple | Size    | ESR  | Ripple |
| 1                     | 010 | 6.3×11    | 18.8 | 38     | 6.3×11    | 18.2 | 38     | 6.3×11   | 18.7 | 40     | 6.3×11  | 19.8 | 38     |
| 2.2                   | 2R2 | 6.3×11    | 12.5 | 60     | 6.3×11    | 12.4 | 60     | 6.3×11   | 12.6 | 62     | 6.3×11  | 17.6 | 65     |
| 3.3                   | 3R3 | 6.3×11    | 10.3 | 70     | 6.3×11    | 10.2 | 75     | 6.3×11   | 10.2 | 75     | 8×11.5  | 13.2 | 82     |
| 4.7                   | 4R7 | 6.3×11    | 8.84 | 90     | 8×11.5    | 8.28 | 92     | 8×11.5   | 8.28 | 95     | 8×11.5  | 8.80 | 105    |
| 5.6                   | 5R6 | 8×11.5    | 6.96 | 95     | 8×11.5    | 7.80 | 100    | 8×11.5   | 7.80 | 100    | 8×16    | 8.25 | 110    |
| 6.8                   | 6R8 | 8×11.5    | 7.50 | 120    | 8×16      | 7.20 | 130    | 8×16     | 7.20 | 135    | 10×16   | 7.70 | 145    |
| 10                    | 100 | 8×11.5    | 8.04 | 140    | 8×16      | 5.10 | 165    | 8×16     | 5.16 | 165    | 10×16   | 5.50 | 175    |
| 22                    | 220 | 10×16     | 2.28 | 260    | 10×16     | 2.34 | 260    | 10×20    | 2.40 | 290    | 12.5×20 | 2.59 | 300    |
| 33                    | 330 | 10×16     | 1.68 | 320    | 10×20     | 1.80 | 360    | 12.5×20  | 1.80 | 370    | 12.5×25 | 1.87 | 410    |
| 47                    | 470 | 10×20     | 1.18 | 425    | 12.5×20   | 1.20 | 460    | 12.5×25  | 1.20 | 500    | 16×25   | 1.38 | 570    |
| 56                    | 560 | 12.5×20   | 1.02 | 500    | 12.5×20   | 1.08 | 500    | 12.5×25  | 1.08 | 540    | 16×30   | 1.10 | 680    |
| 68                    | 680 | 12.5×25   | 0.84 | 610    | 12.5×25   | 0.90 | 630    | 16×25    | 0.86 | 680    | 16×30   | 0.94 | 750    |
| 100                   | 101 | 16×25     | 0.66 | 850    | 16×25     | 0.72 | 850    | 16×30    | 0.72 | 900    | 18×35   | 0.74 | 1000   |
| 120                   | 121 | 16×20     | 0.60 | 870    | 16×25     | 0.65 | 930    | 16×30    | 0.65 | 980    | 18×40   | 0.61 | 1150   |
| 150                   | 151 | 16×25     | 0.48 | 1050   | 16×30     | 0.54 | 1120   | 16×35    | 0.58 | 1180   | 18×45   | 0.55 | 1380   |
| 180                   | 181 | 16×30     | 0.39 | 1200   | 16×35     | 0.42 | 1300   | 18×35    | 0.42 | 1350   |         |      |        |
| 220                   | 221 | 16×35     | 0.34 | 1450   | 18×35     | 0.36 | 1500   | 18×40    | 0.36 | 1600   |         |      |        |
| 330                   | 331 | 18×35     | 0.22 | 1900   | 18×40     | 0.24 | 2000   |          |      |        |         |      |        |

| WV<br>CAP ( $\mu$ F ) |     | 420V(2M) |       |        | 450V(2W) |       |        |
|-----------------------|-----|----------|-------|--------|----------|-------|--------|
|                       |     | Size     | ESR   | Ripple | Size     | ESR   | Ripple |
| 1                     | 010 | 6.3×11   | 19.00 | 38     | 6.3×11   | 19.00 | 38     |
| 2.2                   | 2R2 | 8×11.5   | 16.50 | 62     | 8×11.5   | 16.50 | 65     |
| 3.3                   | 3R3 | 8×11.5   | 12.50 | 85     | 8×16     | 12.50 | 87     |
| 4.7                   | 4R7 | 8×16     | 8.50  | 105    | 10×16    | 8.50  | 105    |
| 5.6                   | 5R6 | 10×16    | 7.50  | 110    | 10×16    | 7.50  | 110    |
| 6.8                   | 6R8 | 10×16    | 6.50  | 160    | 10×20    | 6.50  | 160    |
| 10                    | 100 | 10×20    | 5.30  | 175    | 10×20    | 5.30  | 175    |
| 22                    | 220 | 12.5×25  | 2.50  | 310    | 12.5×25  | 2.80  | 310    |
| 33                    | 330 | 16×25    | 1.80  | 430    | 16×25    | 1.80  | 430    |
| 47                    | 470 | 16×30    | 1.25  | 580    | 16×30    | 1.25  | 580    |
| 56                    | 560 | 16×35    | 1.05  | 680    | 16×35    | 1.05  | 680    |

|     |     |       |      |      |       |      |      |
|-----|-----|-------|------|------|-------|------|------|
| 68  | 680 | 18×30 | 0.90 | 720  | 18×35 | 0.90 | 770  |
| 100 | 101 | 18×40 | 0.70 | 1000 | 18×40 | 0.74 | 1000 |
| 120 | 101 | 18×45 | 0.60 | 1150 | 18×45 | 0.60 | 1150 |

Size  $\phi D \times L$  (mm)

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Maximum ESR ( $\Omega$ ) at 20°C 100KHz

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