



# ALUMINUM ELECTROLYTIC CAPACITORS

## SKE

General Purpose (+105°C 标准品)

Series

- Features : 105°C 2000~3000 hours  
特点:105°C 2000~3000小时
- Recommended applications: household appliances, switching power supply, industrial measuring instruments, etc.  
适用于家用电器、信号、充电电源、工业测量仪器等。
- Corresponding product to RoHS (2011/65/EU)  
符合RoHS要求的相应产品(2011/65/EU)

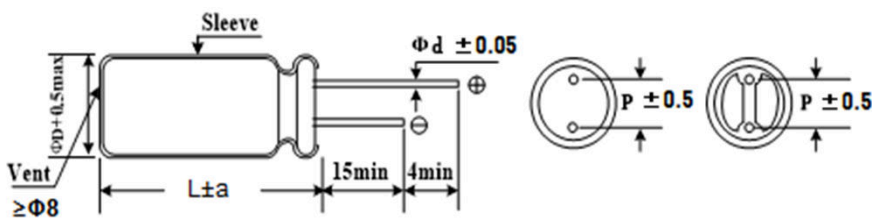


### Specifications(技术性能)

| Item<br>项目                                                                                                                                                 | Characteristics<br>性能                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|------|------|------|------------|------|------|---------|---------|-------|----------------|-----|----|----|----|----|----|-----|---------|---------|---------|------|-----------------|------|------|------|------|------|------|------|------|---|----|----|-----------------|----|---|---|---|---|---|---|---|---|---|---|
| Operating Temperature Range<br>温度范围                                                                                                                        | -40 ~ +105°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| Rated Voltage Range<br>电压范围                                                                                                                                | 6.3 ~ 100VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 160 ~ 250VDC                                           |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| Rated Capacitance Range<br>容量范围                                                                                                                            | 1 ~ 33000μF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 ~ 470μF                                              |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| Capacitance Tolerance<br>容量偏差                                                                                                                              | ± 20 % at 120Hz , 20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| Leakage Current (MAX) (20°C)<br>泄漏电流                                                                                                                       | I=0.01CV or 3(μA)<br>whichever is greater.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I=0.03CV+10(μA) or 3(mA) , whichever is smaller.       |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                            | After rated voltage applied for 2 min<br>两者取较大值, 2分钟测试                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | After rated voltage applied for 2 min<br>两者取较小值, 2分钟测试 |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| Dissipation Factor 损耗角<br>(tanδ) (120Hz ,20°C)                                                                                                             | <table border="1"> <thead> <tr> <th>WV(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>350~500</th> </tr> </thead> <tbody> <tr> <td>tan 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>0.15</td> <td>0.20</td> </tr> </tbody> </table>                                                                                                                                                                                |                                                        |                                                       |      |      |      |            |      |      |         |         | WV(V) | 6.3            | 10  | 16 | 25 | 35 | 50 | 63 | 100 | 160~250 | 350~500 | tan δ   | 0.22 | 0.19            | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.15 | 0.20 |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                            | WV(V)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6.3                                                    | 10                                                    | 16   | 25   | 35   | 50         | 63   | 100  | 160~250 | 350~500 |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| tan δ                                                                                                                                                      | 0.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.19                                                   | 0.16                                                  | 0.14 | 0.12 | 0.10 | 0.09       | 0.08 | 0.15 | 0.20    |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| Capacitance> 1000μF, add 0.02per another1000μF.容量大于1000uF, 每增加1000uF损耗角增加0.02.                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| Low Temperature Stability<br>Impedance Ratio (MAX)<br>低温阻抗比                                                                                                | <table border="1"> <thead> <tr> <th>WV<br/>Z(120Hz)</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>350~400</th> <th>450~</th> </tr> </thead> <tbody> <tr> <td>Z-25°C / Z+20°C</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>5</td> <td>10</td> <td>15</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>7</td> <td>-</td> <td>-</td> </tr> </tbody> </table> |                                                        |                                                       |      |      |      |            |      |      |         |         |       | WV<br>Z(120Hz) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63  | 100     | 160~250 | 350~400 | 450~ | Z-25°C / Z+20°C | 5    | 4    | 3    | 2    | 2    | 2    | 2    | 2    | 5 | 10 | 15 | Z-40°C / Z+20°C | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 7 | - | - |
|                                                                                                                                                            | WV<br>Z(120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6.3                                                    | 10                                                    | 16   | 25   | 35   | 50         | 63   | 100  | 160~250 | 350~400 | 450~  |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                            | Z-25°C / Z+20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                                                      | 4                                                     | 3    | 2    | 2    | 2          | 2    | 2    | 5       | 10      | 15    |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| Z-40°C / Z+20°C                                                                                                                                            | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                                                      | 6                                                     | 4    | 3    | 3    | 3          | 3    | 7    | -       | -       |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| After applying rated voltage for 2000~3000 hours at 105°C. the capacitors shall meet the following requirements.<br>在105°C环境下连续施加额定电压2000~3000小时后, 符合以下要求. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| High Temperature Load Life<br>高温负荷耐久性                                                                                                                      | Capacitance Change 容量                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        | Within ± 20 % of initial value 在初始值的±20%              |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                            | Dissipation Factor 损耗角                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        | Not more than 200% of the specified value 不超过标准值的200% |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                            | Leakage Current 泄漏电流                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        | Initial specified value or less 标准值内                  |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                            | Life Time: 试验时间                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ΦD(mm)                                                 | Φ5~Φ8                                                 |      |      |      | Φ10 higher |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Life(H)                                                | 2000                                                  |      |      |      | 3000       |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |
| High Temperature Shelf Life<br>高温放置耐久性                                                                                                                     | After leaving capacitors under no load at 105°C for 1000 hours.the capacitors shall meet the same requirement as Endurance. 在105°C环境下不加负载放置1000小时后电性能同耐久性要求.                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |                                                       |      |      |      |            |      |      |         |         |       |                |     |    |    |    |    |    |     |         |         |         |      |                 |      |      |      |      |      |      |      |      |   |    |    |                 |    |   |   |   |   |   |   |   |   |   |   |

### Diagram of Dimensions

外形尺寸



Unit: mm

| ΦD | 5                   | 6.3 | 8       | 10  | 13  | 16  | 18  | 22  |
|----|---------------------|-----|---------|-----|-----|-----|-----|-----|
| P  | 2.0                 | 2.5 | 2.5/3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10  |
| Φd | 0.5                 | 0.5 | 0.5     | 0.6 | 0.6 | 0.8 | 0.8 | 1.0 |
| a  | (L<20)1.5 (L≥20)2.0 |     |         |     |     |     |     |     |

### Multiplier for Ripple Current

(1) Frequency Coefficient (频率系数)

| Rated Voltage(V) | Freq. (Hz) |  | 50   | 120  | 300  | 1k   | 10k~ |
|------------------|------------|--|------|------|------|------|------|
|                  | Cap(μf)    |  |      |      |      |      |      |
| 6.3~100          | ≤47        |  | 0.75 | 1.00 | 1.35 | 1.57 | 2.00 |
|                  | 56~470     |  | 0.80 | 1.00 | 1.23 | 1.34 | 1.50 |
|                  | ≥560       |  | 0.85 | 1.00 | 1.10 | 1.13 | 1.15 |
| 160~450          | ≤220       |  | 0.80 | 1.00 | 1.25 | 1.40 | 1.60 |
|                  | >220       |  | 0.90 | 1.00 | 1.10 | 1.13 | 1.15 |

(2) Temperature Coefficient(温度系数)

| Temperature (°C) | -40  | 65   | 70   | 85   | 105  |
|------------------|------|------|------|------|------|
| Factor           | 2.23 | 2.17 | 2.00 | 1.75 | 1.00 |



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**SKE** General Purpose ( +105°C 标准品)  
Series

■ DIMENSIONS Rated Capacitors, Voltage(Surge), Case Size, Ripple Current . 容量、电压 (浪涌电压)、尺寸、纹波电流.

| Capacitance<br>( $\mu$ F) | Rated (Surge) Voltage (V) |        |         |        |         |        |         |        |         |        |         |        |         |        |
|---------------------------|---------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
|                           | 6.3 (8)                   |        | 10 (13) |        | 16 (20) |        | 25 (32) |        | 35 (44) |        | 50 (63) |        | 63 (79) |        |
|                           | Size                      | Ripple | Size    | Ripple | Size    | Ripple | Size    | Ripple | Size    | Ripple | Size    | Ripple | Size    | Ripple |
| 1                         |                           |        |         |        |         |        |         |        |         |        | 5x11    | 13     |         |        |
| 2.2                       |                           |        |         |        |         |        |         |        |         |        | 5x11    | 20     |         |        |
| 3.3                       |                           |        |         |        |         |        |         |        |         |        | 5x11    | 30     |         |        |
| 4.7                       |                           |        |         |        |         |        | 5x11    | 25     | 5x11    | 27     | 5x11    | 37     |         |        |
| 10                        |                           |        |         |        | 5x11    | 39     | 5x11    | 37     | 5x11    | 40     | 5x11    | 54     | 5x11    | 59     |
| 22                        |                           |        | 5x11    | 48     | 5x11    | 53     | 5x11    | 56     | 5x11    | 67     | 5x11    | 79     | 5x11    | 79     |
| 33                        |                           |        | 5x11    | 56     | 5x11    | 60     | 5x11    | 75     | 5x11    | 80     | 6.3x12  | 115    | 6.3x12  | 122    |
| 47                        |                           |        | 5x11    | 66     | 5x11    | 80     | 5x11    | 84     | 5x11    | 101    | 6.3x12  | 155    | 6.3x12  | 146    |
| 68                        |                           |        | 5x11    | 75     | 5x11    | 90     | 5x11    | 92     |         |        |         |        |         |        |
| 100                       | 5x11                      | 94     | 5x11    | 105    | 5x11    | 125    | 5x11    | 128    | 6.3x12  | 168    | 6.3x12  | 190    | 8x16    | 230    |
|                           |                           |        |         |        | 6.3x12  | 213    | 6.3x12  | 159    | 8x12    | 189    | 8x12    | 229    | 10x13   | 251    |
| 220                       | 5x11                      | 153    | 5x11    | 171    | 6.3x12  | 225    | 6.3x12  | 252    | 8x12    | 294    | 8x16    | 406    | 10x16   | 450    |
|                           |                           |        | 6.3x12  | 193    | 8x12    | 240    | 8x12    | 285    |         |        | 10x13   | 443    | 10x20   | 504    |
| 330                       | 6.3x12                    | 216    | 6.3x12  | 239    | 6.3x12  | 279    | 8x12    | 340    | 8x14    | 364    | 10x16   | 581    | 10x20   | 577    |
|                           |                           |        |         |        | 8x12    | 315    |         |        | 8x16    | 406    | 10x20   | 650    | 13x20   | 688    |
| 470                       | 6.3x12                    | 258    | 6.3x12  | 285    | 8x12    | 366    | 8x14    | 421    | 8x20    | 507    | 10x20   | 716    | 13x20   | 897    |
|                           |                           |        | 8x12    | 321    |         |        | 10x13   | 471    | 10x16   | 547    |         |        |         |        |
| 680                       | 8x12                      | 365    | 8x12    | 422    | 8x12    | 429    | 8x16    | 520    | 10x20   | 625    | 13x20   | 963    |         |        |
|                           |                           |        |         |        | 10x13   | 480    | 10x16   | 620    |         |        |         |        |         |        |
| 1000                      | 8x12                      | 443    | 8x12    | 528    | 8x16    | 612    | 10x16   | 720    | 13x17   | 907    | 13x25   | 1287   | 16x25   | 1568   |
|                           | 8x14                      | 478    | 8x14    | 560    | 10x16   | 680    | 10x20   | 821    | 13x20   | 1023   | 16x20   | 1250   |         |        |
|                           |                           |        | 8x16    | 598    |         |        |         |        |         |        |         |        |         |        |
| 1500                      |                           |        | 10x16   | 653    | 10x16   | 712    |         |        |         |        |         |        |         |        |
| 2200                      | 10x16                     | 720    | 10x16   | 792    | 10x20   | 940    | 13x20   | 1090   | 16x25   | 1497   | 16x25   | 1592   | 18x30   | 1890   |
|                           | 10x20                     | 817    | 10x20   | 886    | 13x20   | 1108   | 13x25   | 1297   | 18x20   | 1517   | 16x30   | 1744   |         |        |
| 3300                      | 10x20                     | 1032   | 10x25   | 1190   | 13x20   | 1268   | 13x25   | 1558   | 16x30   | 1808   | 18x36   | 2300   | 18x40   | 2352   |
|                           |                           |        | 13x20   | 1205   | 13x25   | 1389   | 16x25   | 1646   | 18x25   | 1697   |         |        |         |        |
| 4700                      | 13x20                     | 1280   | 13x25   | 1492   | 16x25   | 1740   | 16x25   | 1836   | 16x35   | 2078   | 18x40   | 2910   |         |        |
|                           |                           |        |         |        |         |        | 16x30   | 2012   | 18x30   | 2073   |         |        |         |        |
| 6800                      | 13x25                     | 1554   | 16x25   | 1824   | 16x30   | 2080   | 18x30   | 2452   |         |        |         |        |         |        |
| 10000                     | 16x25                     | 1897   | 16x30   | 1980   | 18x30   | 2270   | 18x35   | 2500   |         |        |         |        |         |        |
| 15000                     | 16x35                     | 2344   | 16x40   | 2180   | 18x35   | 2600   |         |        |         |        |         |        |         |        |
| 22000                     | 18x36                     | 2500   | 18x35   | 2264   |         |        |         |        |         |        |         |        |         |        |
| 33000                     | 18x40                     | 2556   |         |        |         |        |         |        |         |        |         |        |         |        |

☆ Size:  $\phi$ Dx L (mm) ☆ Ripple Current: (mA/rms), 105°C, 120Hz



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General Purpose ( +105°C 标准品)  
Series

■ DIMENSIONS Rated Capacitors, Voltage(Surge), Case Size, Ripple Current. 容量、电压(浪涌电压)、尺寸、纹波电流.

| Cap(μF) | Rated (Surge) Voltage (V) |        |           |        |           |        |           |        |
|---------|---------------------------|--------|-----------|--------|-----------|--------|-----------|--------|
|         | 100 (125)                 |        | 160 (200) |        | 200 (250) |        | 250 (300) |        |
|         | Size                      | Ripple | Size      | Ripple | Size      | Ripple | Size      | Ripple |
| 1       | 5x11                      | 16     | 5x11      | 12     | 6.3x12    | 14     | 6.3x12    | 17     |
| 2.2     | 5x11                      | 21     | 6.3x12    | 18     | 6.3x12    | 20     | 6.3x12    | 27     |
| 3.3     | 5x11                      | 34     | 6.3x12    | 22     | 6.3x12    | 30     | 6.3x12    | 35     |
| 4.7     | 5x11                      | 40     | 6.3x12    | 41     | 6.3x12    | 40     | 8x12      | 45     |
|         |                           |        | 8x12      | 46     |           |        |           |        |
| 10      | 5x11                      | 49     | 8x12      | 60     | 8x12      | 64     | 8x16      | 72     |
|         | 6.3x12                    | 61     | 10x13     | 67     |           |        | 10x13     | 75     |
| 22      | 6.3x12                    | 92     | 10x13     | 96     | 8x16      | 81     | 10x16     | 112    |
|         | 8x12                      | 110    | 10x16     | 110    | 10x16     | 92     |           |        |
| 33      | 8x12                      | 144    | 10x16     | 139    | 10x16     | 165    | 10x20     | 180    |
|         |                           |        |           |        |           |        |           |        |
| 47      | 8x12                      | 177    | 10x16     | 168    | 10x20     | 184    | 13x20     | 205    |
|         | 10x13                     | 199    |           |        |           |        | 13x25     | 238    |
| 68      | 8x16                      | 226    | 10x20     | 223    | 13x20     | 250    | 16x20     | 270    |
|         | 10x13                     | 249    | 13x20     | 250    |           |        |           |        |
| 100     | 10x16                     | 309    | 13x25     | 360    | 13x25     | 341    | 16x25     | 370    |
|         | 10x20                     | 349    |           |        |           |        |           |        |
| 150     |                           |        |           |        |           |        | 16x30     | 440    |
| 220     | 13x17                     | 505    | 16x30     | 680    | 16x30     | 580    | 18x30     | 562    |
|         | 13x20                     | 570    |           |        | 18x30     | 524    |           |        |
| 330     | 13x25                     | 800    | 18x35     | 701    | 18x30     | 667    | 18x40     | 583    |
|         |                           |        |           |        | 18x35     | 757    |           |        |
| 470     | 16x25                     | 978    | 18x35     | 748    | 18x35     | 690    |           |        |
|         | 16x30                     | 1072   |           |        |           |        |           |        |
| 1000    | 18x35                     | 1020   |           |        |           |        |           |        |

☆ Size: ΦDx L (mm) ☆ Ripple Current: (mA/rms), 105°C, 120Hz

| Cap(μF) | Rated (Surge) Voltage (V) |        |           |        |           |        |           |        |
|---------|---------------------------|--------|-----------|--------|-----------|--------|-----------|--------|
|         | 350 (400)                 |        | 400 (450) |        | 450 (500) |        | 500 (550) |        |
|         | Size                      | Ripple | Size      | Ripple | Size      | Ripple | Size      | Ripple |
| 1       | 6.3x12                    | 18     | 6.3x12    | 19     | 6.3x12    | 16     |           |        |
| 2.2     | 6.3x12                    | 25     | 6.3x12    | 25     | 6.3x12    | 20     | 8x12      | 27     |
|         |                           |        | 8x12      | 30     | 8x12      | 22     | 10x13     | 33     |
| 3.3     | 8x12                      | 40     | 6.3x12    | 30     | 8x12      | 31     | 10x13     | 42     |
|         |                           |        | 8x12      | 34     |           |        | 8x16      | 38     |
| 4.7     | 8x12                      | 45     | 8x12      | 40     | 8x12      | 35     | 10x16     | 47     |
|         | 10x13                     | 50     | 10x13     | 47     | 10x13     | 37     |           |        |
| 6.8     | 8x12                      | 56     | 8x12      | 47     | 8x16      | 53     | 10x13     | 53     |
|         |                           |        | 8x14      | 51     | 10x13     | 52     | 10x17     | 60     |
| 8.2     |                           |        | 8x14      | 48     |           |        | 10x20     | 72     |
|         |                           |        | 8x16      | 51     |           |        |           |        |
| 10      | 8x12                      | 65     | 8x12      | 51     | 10x16     | 60     | 10x20     | 93     |
|         | 10x13                     | 69     | 10x13     | 55     | 10x20     | 70     | 13x17     | 96     |
|         |                           |        | 10x16     | 74     |           |        | 13x20     | 102    |
| 15      | 10x16                     | 81     | 10x16     | 82     | 10x20     | 85     | 10x20     | 105    |
|         |                           |        | 10x20     | 92     | 13x17     | 97     | 13x20     | 110    |
| 22      | 13x17                     | 148    | 13x17     | 147    | 13x20     | 130    | 13x20     | 130    |
|         | 13x20                     | 150    | 13x20     | 159    | 13x25     | 151    |           |        |
| 33      | 13x17                     | 177    | 13x17     | 159    | 13x25     | 209    | 16x25     | 200    |
|         | 13x20                     | 200    | 13x20     | 173    | 16x20     | 225    |           |        |
| 47      | 16x20                     | 264    | 16x25     | 298    | 16x25     | 289    | 16x30     | 230    |
|         | 16x25                     | 305    | 18x20     | 303    |           |        |           |        |
| 68      | 16x30                     | 366    | 16x25     | 301    | 16x30     | 348    | 18x30     | 370    |
|         | 18x20                     | 372    | 18x25     | 343    | 18x25     | 352    |           |        |
| 82      | 16x30                     | 393    | 16x30     | 396    | 18x30     | 440    | 18x35     | 465    |
|         | 18x25                     | 396    | 18x25     | 404    |           |        |           |        |
| 100     | 16x35                     | 408    | 18x30     | 430    | 18x35     | 490    | 18x40     | 528    |
|         | 18x30                     | 412    |           |        |           |        |           |        |
| 120     | 18x35                     | 446    | 18x30     | 506    | 18x40     | 388    |           |        |
|         |                           |        | 18x35     | 570    |           |        |           |        |
| 150     | 18x35                     | 603    | 18x35     | 616    |           |        |           |        |
| 180     |                           |        | 18x40     | 669    |           |        |           |        |
|         |                           |        |           |        |           |        |           |        |

☆ Size: ΦDx L (mm) ☆ Ripple Current: (mA/rms), 105°C, 120Hz