

Specification for approval

客户名称:

(Customer Name)

产品名称:

电解电容器

(Product Name)

Aluminum Electrolytic Capacitor

客户料号:

(Customer part number)

科尼盛料号:

DGA250M337N303S1AA

(KNSCHA number)

型号规格:

E/C 250V/330uF 18\*30mm KNSCHA KGA

(Specifications)

日期:

2025.6.16

DATE

|                    |                 |
|--------------------|-----------------|
| 制 造<br>Manufacture |                 |
| 核 准<br>APPROVAL    | 制 作<br>PREPARED |
| 王帅                 | 陆美秀             |

|                                |                |                 |
|--------------------------------|----------------|-----------------|
| 客 户 承 认 栏<br>CUSTOMER APPROVED |                |                 |
| 核 准<br>APPROVED                | 确 认<br>CHECKED | 经 办<br>DESIGNED |
|                                |                |                 |

**广东科尼盛电子科技有限公司**

KNSCHA ELECTRONICS CO., LIMITED.

No. 8th floor, A3 building, R&D center (Phase I),

Songshan Lake Intelligent Valley, Liaobu Town, Dongguan City.

TEL:0769-83698067 81035570 FAX: 0769-83861559

Email: sales@knscha.com Website: <http://www.knscha.com>

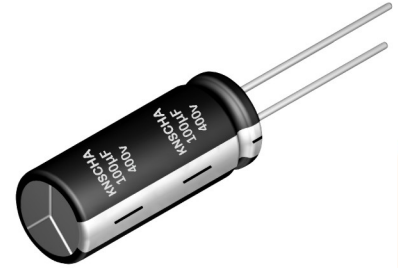


## 特性/ Features

- 105°C standard series for general purposes
- Load Life: 2000 hours at 105°C
- RoHS compliant
- 105°C一般用途通用标准品
- 105°C负荷寿命2000小时
- 符合RoHS指令



ΦD &lt; 13mm



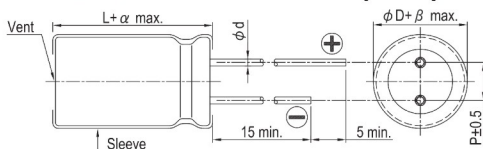
ΦD ≥ 13mm

引线型Radial

■表1 规格表 Specifications

| 项目 Items                                                                                                                   |  | 性 能 Performance                                                                                                                                                                                                                              |      |                                                                                      |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
|----------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|------|------|------|------|------|--------------------------|------|---------------------------------------------|------|------|------|------|-----|-----|
| 工作温度范围<br>Category Temperature Range                                                                                       |  | 6.3~400V                                                                                                                                                                                                                                     |      |                                                                                      |      |      |      |      |      | 450~650V                 |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | -40℃~+105℃                                                                                                                                                                                                                                   |      |                                                                                      |      |      |      |      |      | -25℃~+105℃               |      |                                             |      |      |      |      |     |     |
| 额定静电容量容许误差值<br>Capacitance Tolerance                                                                                       |  | ± 20% (120 Hz, 20℃)                                                                                                                                                                                                                          |      |                                                                                      |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
| 漏 电 流<br>Leakage Current(at 20℃)                                                                                           |  | 额定电压<br>Rated voltage                                                                                                                                                                                                                        |      | ≤100V                                                                                |      |      |      |      |      | > 100V                   |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | 测试时间<br>Time                                                                                                                                                                                                                                 |      | 2 分钟后<br>after 2 minutes                                                             |      |      |      |      |      | 2 分钟后<br>after 2 minutes |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | 漏 电 流<br>Leakage Current                                                                                                                                                                                                                     |      | I ≤ 0.01CV or 3(μA/微安)<br>之中任一较大值以下whichever is greater                              |      |      |      |      |      | I ≤0.03CV+10(μA/微安)      |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | I = 漏电流(μA/微安)、C = 额定静电容量(μF/微法拉)、V = 额定直流工作电压(V/伏特)<br>Where,C = rated capacitance in μF,V = rated DC working voltage in V                                                                                                                  |      |                                                                                      |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
| 损失角正切值<br>Tanδ (at 120 Hz, 20℃)                                                                                            |  | 额定电压<br>Rated Voltage                                                                                                                                                                                                                        | 6.3  | 10                                                                                   | 16   | 25   | 35   | 50   | 63   | 100                      | 160  | 200                                         | 220  | 250  | 350  | 400  |     |     |
|                                                                                                                            |  | 损失角正切值<br>Tanδ (max)                                                                                                                                                                                                                         | 0.24 | 0.2                                                                                  | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08                     | 0.15 | 0.15                                        | 0.12 | 0.15 | 0.15 | 0.20 |     |     |
|                                                                                                                            |  | 额定电压<br>Rated Voltage                                                                                                                                                                                                                        | 450  | 500                                                                                  | 550  | 600  | 650  |      |      |                          |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | 损失角正切值<br>Tanδ (max)                                                                                                                                                                                                                         | 0.24 | 0.24                                                                                 | 0.24 | 0.24 | 0.24 |      |      |                          |      |                                             |      |      |      |      |     |     |
| 当额定静电容量大于1,000微法拉时, 每增加1,000微法拉需加0.02。<br>When the capacitance exceeds 1,000μF,0.02 shall be added every 1,000μF increase. |  |                                                                                                                                                                                                                                              |      |                                                                                      |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
| 温度特性(120 Hz)<br>Low Temperature Characteristics                                                                            |  | 阻抗比不可大于下表所列数值 Impedance ratio shall not exceed the values given in the table below.                                                                                                                                                          |      |                                                                                      |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | 额定电压<br>Rated Voltage                                                                                                                                                                                                                        |      | 6.3                                                                                  | 10   | 16   | 25   | 35   | 50   | 63                       | 100  | 160                                         | 200  | 250  | 350  | 400  | 450 | 500 |
|                                                                                                                            |  | 阻 抗 比<br>Impedance Ratio                                                                                                                                                                                                                     |      | Z(-25℃)/Z(+20℃)                                                                      |      | 5    | 4    | 3    | 2    | 2                        | 2    | 2                                           | 3    | 3    | 4    | 4    | 6   | 15  |
| Z(-40℃)/Z(+20℃)                                                                                                            |  |                                                                                                                                                                                                                                              |      | 10                                                                                   | 8    | 6    | 4    | 3    | 3    | 3                        | 3    | 6                                           | 6    | 8    | 8    | 10   |     |     |
| 耐 久 性<br>Endurance                                                                                                         |  | 保证寿命时间<br>Test Time                                                                                                                                                                                                                          |      | 2,000 hours                                                                          |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | 静电容量变化率<br>Capacitance Change                                                                                                                                                                                                                |      | ≤6.3V                                                                                |      |      |      |      |      |                          |      | > 6.3V                                      |      |      |      |      |     |     |
|                                                                                                                            |  |                                                                                                                                                                                                                                              |      | ≤ 初始值的+20%~-30%<br>Within +20%~-30% of initial value                                 |      |      |      |      |      |                          |      | ≤ 初始值的± 20%<br>Within ±20% of initial value |      |      |      |      |     |     |
|                                                                                                                            |  | 损失角正切值<br>Tanδ                                                                                                                                                                                                                               |      | ≤ 初始规格值的200%或0.4(取较大者) Less than 200% of specified value or 0.4 whichever is greater |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | 漏 电 流<br>Leakage Current                                                                                                                                                                                                                     |      | ≤ 初始规格值 Within specified value                                                       |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | *于 105℃环境中供给容许纹波电流值与额定电压 2,000 小时后, 待制品回复至 20℃的环境中进行量测时, 需满足上列要求。<br>*The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 2,000 hours at 105℃. |      |                                                                                      |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
| 高温无负荷特性<br>Shelf Life Test                                                                                                 |  | 保证寿命时间<br>Test Time                                                                                                                                                                                                                          |      | 1,000 hours                                                                          |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | 静电容量变化率<br>Capacitance Change                                                                                                                                                                                                                |      | ≤6.3V                                                                                |      |      |      |      |      |                          |      | > 6.3V                                      |      |      |      |      |     |     |
|                                                                                                                            |  |                                                                                                                                                                                                                                              |      | ≤ 初始值的+20%~-30%<br>Within +20%~-30% of initial value                                 |      |      |      |      |      |                          |      | ≤ 初始值的± 20%<br>Within ±20% of initial value |      |      |      |      |     |     |
|                                                                                                                            |  | 损失角正切值<br>Tanδ                                                                                                                                                                                                                               |      | ≤ 初始规格值的200%或0.4(取较大者) Less than 200% of specified value or 0.4 whichever is greater |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | 漏 电 流<br>Leakage Current                                                                                                                                                                                                                     |      | ≤ 初始规格值 Within specified value                                                       |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |
|                                                                                                                            |  | *于 105℃环境中不供给额定电压 1,000 小时后, 待制品回复至 20℃的环境中进行量测时, 需满足上列要求。<br>*The above specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied.                      |      |                                                                                      |      |      |      |      |      |                          |      |                                             |      |      |      |      |     |     |

■表2 外形尺寸 Dimensions(mm)



Lead Spacing and Diameter

Unit: mm

| β       | ±0.5 |     |                   |     |                 |    |      |     |    |  |
|---------|------|-----|-------------------|-----|-----------------|----|------|-----|----|--|
| ΦD      | 5    | 6.3 | 8                 | 10  | 12.5            | 13 | 16   | 18  | 22 |  |
| Φd±0.05 | 0.5  |     |                   | 0.6 |                 |    |      | 0.8 |    |  |
| P±0.5   | 2    | 2.5 | 2.5/3.5           |     | 5.0             |    | 7.5  |     | 10 |  |
| L±α     | ±1   |     | ±1.5/L≥40, α=±2.0 |     | ±2/L≥40, α=±2.5 |    | ±2.0 |     |    |  |

■表3 纹波电流与频率修正系数

Ripple Current and Frequency Multipliers

6.3V~100V

| Cap.(μF)    | Freq.(Hz) | 50   | 120  | 1K   | 100K |
|-------------|-----------|------|------|------|------|
|             | ~47       | 0.75 | 1.00 | 1.57 | 2.00 |
| Coefficient | 100~470   | 0.80 | 1.00 | 1.34 | 1.5  |
|             | 1000~     | 0.85 | 1.00 | 1.13 | 1.15 |

160V~500V

| F (Hz)      | 50   | 120  | 1K   | 100K |
|-------------|------|------|------|------|
| Coefficient | 0.80 | 1.00 | 1.40 | 1.60 |

■表4 标准品一览表 Standard Size

Dimension and Permissible Ripple Current

Dimension:  $\phi D \times L$ (mm)  
Ripple Current: mA/rms at 120 Hz, 105°C

| Rated Volt.(Vdc)       | 6.3     |       | 10      |       | 16      |       | 25      |         | 35      |       | 50      |       | 63      |       |
|------------------------|---------|-------|---------|-------|---------|-------|---------|---------|---------|-------|---------|-------|---------|-------|
| Surge Volt.(Vdc)       | 8       |       | 13      |       | 20      |       | 32      |         | 44      |       | 63      |       | 79      |       |
| Item<br>Cap.( $\mu$ F) | D×L     | R. C. | D×L     | R. C. | D×L     | R. C. | D×L     | R. C.   | D×L     | R. C. | D×L     | R. C. | D×L     | R. C. |
| 0.1                    |         |       | 5×11    |       |         |       |         |         |         |       | 5×11    | 1.5   |         |       |
| 0.22                   |         |       |         |       |         |       |         |         |         |       | 5×11    | 3.5   |         |       |
| 0.33                   |         |       |         |       |         |       |         |         |         |       | 5×11    | 5.2   |         |       |
| 0.47                   |         |       |         |       |         |       |         |         |         |       | 5×11    | 8.5   |         |       |
| 1                      |         |       |         |       |         |       |         |         |         |       | 5×11    | 15    |         |       |
| 2.2                    |         |       |         |       |         |       |         |         |         |       | 5×11    | 24    |         |       |
| 3.3                    |         |       |         |       |         |       |         |         |         |       | 5×11    | 30    |         |       |
| 4.7                    |         |       |         |       |         |       | 5×11    | 30      | 5×11    | 31    | 5×11    | 36    | 6.3×11  | 37    |
| 6.8                    |         |       |         |       |         |       |         |         |         |       | 5×11    | 40    |         |       |
| 10                     |         |       |         |       | 5×11    | 42    | 5×11    | 43      | 5×11    | 47    | 5×11    | 59    | 5×11    | 68    |
| 22                     |         |       | 5×11    | 59    | 5×11    | 63    | 5×11    | 65      | 5×11    | 75    | 5×11    | 73    | 5×11    | 85    |
| 33                     | 5×11    | 69    | 5×11    | 77    | 5×11    | 79    | 5×11    | 83      | 5×11    | 91    | 5×11    | 97    | 6.3×11  | 116   |
| 47                     | 5×11    | 78    | 5×11    | 87    | 5×11    | 94    | 5×11    | 97      | 5×11    | 109   | 6.3×11  | 107   | 8×12    | 121   |
| 68                     |         |       |         |       |         |       |         |         |         |       |         |       | 6.3×11  | 160   |
| 100                    | 5×11    | 111   | 5×11    | 139   | 5×11    | 129   | 5×11    | 135     | 6.3×11  | 169   | 8×12    | 218   | 10×12.5 | 254   |
|                        |         |       |         |       | 6.3×11  | 135   | 6.3×11  | 163     | 8×12    | 199   | 8×14    | 242   |         |       |
| 220                    | 5×11    | 156   | 5×11    | 182   | 6.3×11  | 218   | 8×12    | 290     | 8×12    | 290   | 10×12.5 | 333   | 10×16   | 399   |
|                        | 6.3×11  | 183   | 6.3×11  | 219   |         |       |         |         |         |       | 10×16   | 363   | 10×20   | 436   |
| 330                    | 6.3×11  | 233   | 6.3×11  | 272   | 8×12    | 321   | 8×12    | 327     | 8×14    | 385   | 10×16   | 410   | 10×20   | 605   |
|                        |         |       |         |       |         |       |         |         | 10×12.5 | 411   |         |       |         |       |
| 470                    | 6.3×11  | 266   | 6.3×11  | 290   | 8×12    | 374   | 8×12    | 382     | 10×16   | 545   | 10×20   | 600   | 13×20   | 762   |
|                        |         |       |         |       |         |       |         | 8×16    | 451     |       |         |       |         |       |
|                        |         |       |         |       |         |       |         | 10×12.5 | 448     | 10×20 | 602     | 13×20 | 762     |       |
|                        |         |       |         |       |         |       |         | 10×16   | 520     |       |         |       |         |       |
| 680                    |         |       | 8×12    | 380   |         |       | 10×16   | 503     | 13×20   | 712   | 13×25   | 799   | 13×35.5 | 1004  |
| 820                    | 6.3×12  | 299   |         |       |         |       |         |         |         |       |         |       |         |       |
| 1000                   | 8×12    | 460   | 10×12.5 | 586   | 10×16   | 617   | 10×20   | 750     | 13×20   | 968   | 13×25   | 1137  | 16×25.5 | 1573  |
| 2200                   | 10×20   | 774   | 10×20   | 918   | 10×25   | 937   | 13×25   | 1307    | 16×25.5 | 1513  | 16×35.5 | 1890  | 18×35.5 | 1984  |
|                        |         |       |         |       | 13×20   | 1004  |         |         |         |       | 18×25.5 | 1694  |         |       |
| 3300                   | 10×20   | 908   | 13×20   | 1210  | 13×25   | 1404  | 13×31.5 | 1698    | 18×25.5 | 1815  | 18×35.5 | 2130  |         |       |
|                        |         |       |         |       |         |       | 16×25.5 | 1694    |         |       |         |       |         |       |
| 4700                   | 13×20   | 1307  | 13×25   | 1513  | 13×31.5 | 1836  | 16×31.5 | 1880    | 18×35.5 | 2057  | 18×40   | 2205  |         |       |
|                        |         |       |         |       | 16×25.5 | 1815  |         |         |         |       | 20×40   | 2961  |         |       |
|                        |         |       |         |       | 18×20.5 | 1815  |         |         |         |       |         |       |         |       |
| 5600                   |         |       |         |       |         |       |         |         |         |       | 20×40   | 2300  |         |       |
| 10000                  | 16×25.5 | 1984  | 16×31.5 | 2178  | 18×35.5 | 2000  |         |         |         |       |         |       |         |       |

制品尺寸与容许纹波电流一览表

尺寸: 直径( $\phi D$ )×长度(L), (毫米/mm)  
容许纹波电流: 毫安/均方根值(mA/rms), 120 赫兹(Hz), 105°C

Dimension and Permissible Ripple Current

Dimension:  $\phi D \times L$ (mm)  
Ripple Current: mA/rms at 120 Hz, 105°C

| Rated Volt.(Vdc) | 100    |       | 160    |       | 200     |       | 250     |       | 350      |         | 400     |       | 450     |         | 500     |       |         |       |     |
|------------------|--------|-------|--------|-------|---------|-------|---------|-------|----------|---------|---------|-------|---------|---------|---------|-------|---------|-------|-----|
| Surge Volt.(Vdc) | 125    |       | 200    |       | 250     |       | 300     |       | 400      |         | 450     |       | 500     |         | 550     |       |         |       |     |
| Item<br>Cap.(μF) | D×L    | R. C. | D×L    | R. C. | D×L     | R. C. | D×L     | R. C. | D×L      | R. C.   | D×L     | R. C. | D×L     | R. C.   | D×L     | R. C. |         |       |     |
| 0.47             | 5×11   | 8.6   | 5×11   | 7.9   | 5×11    | 8     | 5×11    | 8     |          |         | 6.3×11  | 14    |         |         |         |       |         |       |     |
| 1                | 5×11   | 20    | 5×11   | 12    | 5×11    | 12    | 5×11    | 12    | 6.3×11   | 16      | 6.3×11  | 14    | 6.3×11  | 23      | 10×12.5 | 20    |         |       |     |
| 2.2              | 5×11   | 30    | 5×11   | 18    | 5×11    | 18    | 6.3×11  | 17    | 6.3×11   | 24      | 8×12    | 30    | 8×12    | 24      | 10×16   | 35    |         |       |     |
| 3.3              | 5×11   | 36    | 5×11   | 21    | 6.3×11  | 33    | 6.3×11  | 24    | 8×12     | 33      | 8×12    | 36    | 10×12.5 | 30      | 10×16   | 48    |         |       |     |
| 4.7              | 5×11   | 44    | 6.3×11 | 28    | 6.3×11  | 35    | 6.3×11  | 40    | 8×12     | 42      | 6.3×12  | 50    | 8×12    | 45      | 10×20   | 70    |         |       |     |
|                  |        |       |        |       | 8×12    | 51    | 8×12    |       |          |         | 8×12    | 50    |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 8×14    | 50    |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 10×12.5 | 50    |         |         |         |       |         |       |     |
| 5.6              |        |       |        |       |         |       | 6.3×11  | 40    |          |         |         |       |         |         |         |       |         |       |     |
| 6.8              |        |       |        |       | 8×12    | 61.9  | 8×12    | 54    |          |         | 8×12    | 80    | 8×16    | 39      |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 8×14    | 67    |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 10×12.5 | 71    |         |         |         |       |         |       |     |
| 8.2              |        |       |        |       |         |       |         |       |          |         | 8×12    | 64    | 8×14    | 54      |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 8×15    | 73    |         |         |         |       |         |       |     |
| 10               | 6.3×11 | 75    | 6.3×15 | 48    | 8×12    | 66    | 10×12.5 | 85    | 10×16    | 73      | 8×12    | 94    | 8×13    | 94      | 13×20   | 98    |         |       |     |
|                  |        |       | 8×12   | 48    | 10×16   | 95    | 10×16   | 97    |          |         | 8×15    | 94    | 10×16   | 56      |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 10×16   | 87    | 10×20   | 63      |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 10×20   | 97    | 13×20   | 63      |         |       |         |       |     |
| 15               |        |       |        |       |         |       | 8×16    | 110   |          |         | 10×12.5 | 120   | 13×16   | 86      |         |       |         |       |     |
|                  |        |       |        |       |         |       | 12.5×20 | 100   |          |         | 10×16   | 96    |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 10×20   | 120   |         |         |         |       | 13×20   | 94    |     |
| 18               |        |       |        |       |         |       |         |       |          |         | 10×16   | 125   |         |         |         |       |         |       |     |
| 22               | 8×12   | 126   |        |       |         |       |         |       | 13×20    | 123     | 10×17   | 120   | 13×25   | 119     | 12.5×25 | 130   |         |       |     |
|                  |        |       |        |       |         |       |         |       | 13×25    | 151     | 13×16   | 132   |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       | 13×16    | 98      | 13×20   | 148   |         |         |         |       |         |       |     |
| 33               | 8×12   | 145   | 10×16  | 139   | 10×16   | 160   | 13×20   | 182   | 13×25    | 193     | 13×18   | 220   | 13×20   | 170     | 18×35.5 | 198   |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 10×20   | 157   | 13×20   | 210     |         |       | 16×20.5 | 180   |     |
|                  |        |       |        |       |         |       |         |       |          |         |         |       | 13×25   | 260     |         |       | 16×25.5 | 194   |     |
|                  |        |       |        |       | 16×20.5 | 260   |         |       |          |         |         |       | 16×31.5 | 211     |         |       |         |       |     |
|                  |        |       |        |       | 16×25.5 | 288   |         |       |          |         |         |       | 18×20.5 | 194     |         |       |         |       |     |
|                  |        |       |        |       | 47      | 8×16  |         |       |          |         | 170     | 10×20 | 169     | 13×20   |         |       | 223     | 13×20 | 218 |
| 10×12.5          |        |       |        | 13×25 |         | 248   | 13×25   | 238   | (100KHZ) | 16×25.5 |         |       |         | 243     | 16×25.5 |       |         |       |     |
|                  |        |       |        |       |         |       |         |       | 16×25.5  | 300     |         |       |         | 16×35.5 | 339     |       |         |       |     |
| 53               |        |       |        |       |         |       |         |       |          |         | 18×20.5 |       | 18×25.5 | 310     |         |       |         |       |     |
| 56               |        |       |        |       |         |       |         |       |          |         |         |       | 10×52   | 335     |         |       |         |       |     |
| 68               |        |       |        |       | 13×25   | 325   |         |       |          |         | 13×25   | 530   | 18×25.5 | 350     | 12.5×50 | 450   |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 16×25.5 | 410   | 13×50   | 390     |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 16×31.5 | 450   | 18×25.5 | 580     |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 18×20.5 | 410   | 18×35.5 | 508     |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 18×25.5 | 435   |         |         |         |       |         |       |     |
| 82               |        |       |        |       |         |       |         |       |          |         | 16×25.5 | 358   | 18×25.5 | 450     |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 18×20.5 | 310   | 18×31.5 | 510     |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 18×25.5 | 380   | 18×35.5 | 569     |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 18×31.5 | 424   |         |         |         |       |         |       |     |
| 100              | 10×20  | 315   | 13×16  | 280   | 13×20   | 300   | 16×25.5 | 387   | 16×31.5  | 510     | 14.5×37 | 585   | 18×35.5 | 566     |         |       |         |       |     |
|                  |        |       |        |       | 16×20.5 | 330   |         |       | 18×35.5  | 484     | 16×35.5 | 450   |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       | 14.5×37  | 400     |         |       |         |         |         |       |         |       |     |
|                  |        |       | 13×25  | 363   | 16×25.5 | 377   |         |       | 18×25.5  | 380     | 18×25.5 | 380   |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       | 18×31.5  | 429     | 18×31.5 | 429   |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       | 22×22    | 420     | 18×35.5 | 484   | 18×40   | 605     |         |       |         |       |     |
| 120              |        |       |        |       |         |       |         |       |          |         | 22×22   | 420   |         |         |         |       |         |       |     |
| 150              |        |       |        |       | 18×20.5 | 750   |         |       |          |         | 18×31.5 |       | 18×35.5 | 800     | 20×40   | 850   |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 22×25   | 505   |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 18×35.5 | 534   |         |         |         |       |         |       |     |
|                  |        |       |        |       |         |       |         |       |          |         | 16×40   | 1000  |         |         |         |       |         |       |     |
| 150              |        |       |        |       |         |       |         |       |          |         | 18×38   | 609   |         |         | 20×40   | 900   |         |       |     |

制品尺寸与容许纹波电流一览表

尺寸: 直径( $\phi D$ )×长度(L), (毫米/mm)  
容许纹波电流: 毫安/均方根值(mA/rms), 120 赫兹(Hz), 105°C



Dimension and Permissible Ripple Current

Dimension:  $\phi D \times L$ (mm)  
Ripple Current: mA/rms at 120 Hz, 105°C

| Rated Volt.(Vdc)    | 100     |       | 160     |       | 200     |       | 250   |       | 350 |       | 400     |       | 450 |       | 500 |       |
|---------------------|---------|-------|---------|-------|---------|-------|-------|-------|-----|-------|---------|-------|-----|-------|-----|-------|
| Surge Volt.(Vdc)    | 125     |       | 200     |       | 250     |       | 300   |       | 400 |       | 450     |       | 500 |       | 550 |       |
| Item Cap.( $\mu$ F) | D×L     | R. C. | D×L     | R. C. | D×L     | R. C. | D×L   | R. C. | D×L | R. C. | D×L     | R. C. | D×L | R. C. | D×L | R. C. |
| 180                 |         |       |         |       |         |       |       |       |     |       | 18×35.5 | 800   |     |       |     |       |
|                     |         |       |         |       |         |       |       |       |     |       | 22×30   | 800   |     |       |     |       |
| 200                 |         |       |         |       |         |       |       |       |     |       | 18×40   | 1000  |     |       |     |       |
| 220                 | 13×25   | 581   | 18×25.5 | 484   | 16×35.5 | 593   | 18×40 | 598   |     |       | 18×45   | 1020  |     |       |     |       |
|                     | 16×20.5 | 581   |         |       |         |       |       |       |     |       |         |       |     |       |     |       |
| 270                 |         |       | 18×20.5 | 570   |         |       |       |       |     |       |         |       |     |       |     |       |
| 330                 | 16×25.5 | 714   | 18×35.5 | 726   | 22×35   | 700   |       |       |     |       |         |       |     |       |     |       |
| 390                 |         |       |         |       | 16×38.5 | 1000  |       |       |     |       |         |       |     |       |     |       |
| 470                 | 16×31.5 | 968   |         |       | 22×35   | 900   |       |       |     |       |         |       |     |       |     |       |
| 1000                | 18×40   | 1573  |         |       |         |       |       |       |     |       |         |       |     |       |     |       |

制品尺寸与容许纹波电流一览表

尺寸：直径( $\phi D$ )×长度(L)，(毫米/mm)  
容许纹波电流：毫安/均方根值(mA/rms)，120 赫兹(Hz)，105°C

Dimension and Permissible Ripple Current

Dimension:  $\phi D \times L$ (mm)  
Ripple Current: mA/rms at 120 Hz, 105°C

| Rated Volt.(Vdc)    | 220   |       | 550     |       | 600     |       | 650     |       |
|---------------------|-------|-------|---------|-------|---------|-------|---------|-------|
| Surge Volt.(Vdc)    | 270   |       | 600     |       | 650     |       | 700     |       |
| Item Cap.( $\mu$ F) | D×L   | R. C. | D×L     | R. C. | D×L     | R. C. | D×L     | R. C. |
| 4.7                 |       |       | 10×12.5 | 100   |         |       |         |       |
| 10                  |       |       | 10×20   | 120   |         |       |         |       |
| 15                  |       |       | 13×16   | 110   |         |       |         |       |
| 22                  |       |       |         |       |         |       | 16×20.5 | 180   |
| 47                  |       |       |         |       | 18×31.5 | 260   | 18×31.5 | 300   |
| 68                  |       |       | 18×31.5 | 340   |         |       | 18×35.5 | 380   |
| 82                  |       |       |         |       |         |       | 18×40   | 450   |
| 100                 |       |       |         |       |         |       | 22×35   | 550   |
| 680                 | 22×35 | 1800  |         |       |         |       |         |       |

制品尺寸与容许纹波电流一览表

尺寸：直径( $\phi D$ )×长度(L)，(毫米/mm)  
容许纹波电流：毫安/均方根值(mA/rms)，120 赫兹(Hz)，105°C

表5 产品编码说明 Part Numbering System

| D                                                       | GA                 | 650                                                                                                                                                                        | M                                           | 826                   | N40               | 0                           | S1                       | A                                     | A                     |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
|---------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------|-------------------|-----------------------------|--------------------------|---------------------------------------|-----------------------|-----|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|-------|-----|-------|-----|------|-----|-------|-----|--------|-----|---------|-----|-------------------------------------------------------------------------------------------------------------|------------|--------|-------|-----|---------------------------------|--|--|--|
| 电容器类别<br>Capacitors Name                                | 系列名<br>Series Name | 额定电压<br>Rated voltage                                                                                                                                                      | 额定静电容量<br>容许误差值<br>Capacitance<br>tolerance | 额定静电容量<br>Capacitance | 制品尺寸<br>Case size | PET套颜色管<br>PET Sleeve color | 加工形状<br>Processing shape | 电气特性<br>Electrical<br>characteristics | 内部特征码<br>Internal use |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 引线型铝电解电容器<br>Leaded<br>Aluminum Electrolytic Capacitors | KGA Series         | 范例Example:<br><table><tr><th>Voltage</th><th>Symbol</th></tr><tr><td>6.3V</td><td>6R3</td></tr><tr><td>10V</td><td>010</td></tr><tr><td>250V</td><td>250</td></tr></table> | Voltage                                     | Symbol                | 6.3V              | 6R3                         | 10V                      | 010                                   | 250V                  | 250 | M=±20% | 范例Example:<br><table><tr><th>Cap.</th><th>Symbol</th></tr><tr><td>0.1μF</td><td>104</td></tr><tr><td>2.2μF</td><td>225</td></tr><tr><td>33μF</td><td>336</td></tr><tr><td>470μF</td><td>477</td></tr><tr><td>6800μF</td><td>688</td></tr><tr><td>82000μF</td><td>829</td></tr></table> | Cap. | Symbol | 0.1μF | 104 | 2.2μF | 225 | 33μF | 336 | 470μF | 477 | 6800μF | 688 | 82000μF | 829 | 范例Example:<br><table><tr><th>φDia. (mm)</th><th>Symbol</th></tr><tr><td>18x40</td><td>N40</td></tr></table> | φDia. (mm) | Symbol | 18x40 | N40 | 黑体银字<br>Black body silver print |  |  |  |
| Voltage                                                 | Symbol             |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 6.3V                                                    | 6R3                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 10V                                                     | 010                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 250V                                                    | 250                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| Cap.                                                    | Symbol             |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 0.1μF                                                   | 104                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 2.2μF                                                   | 225                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 33μF                                                    | 336                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 470μF                                                   | 477                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 6800μF                                                  | 688                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 82000μF                                                 | 829                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| φDia. (mm)                                              | Symbol             |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |
| 18x40                                                   | N40                |                                                                                                                                                                            |                                             |                       |                   |                             |                          |                                       |                       |     |        |                                                                                                                                                                                                                                                                                        |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                                             |            |        |       |     |                                 |  |  |  |

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