

# KNSCHA

Empowering The World

## 广东科尼盛电子科技有限公司

## KNSCHA ELECTRONICS CO.,LIMITED

IATF16949:2016

ISO9001:2015

ISO14001:2015

### 部品规格书 APPROVE SHEET

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| 客 户 名 称<br>Customer Name |                                                                 |
| 产 品 名 称<br>Product Name  | 基板自立型牛角铝电解电容器<br>Snap-in Aluminum Electrolytic Capacitors       |
| 客 户 料 号<br>Customer P/N  |                                                                 |
| 科 尼 盛 料 号<br>KNSCHA P/N  | LSG250M477S303S1AA(203EC1288)                                   |
| 型 号 规 格<br>Product Type  | 250V/470 $\mu$ F 2000Hours@105 $^{\circ}$ C 插件,30xL30mm PET黑体银字 |
| 日 期<br>Date              | 2024年10月17日                                                     |

|                    |                 |
|--------------------|-----------------|
| 制 造<br>Manufacture |                 |
| 核 准<br>APPROVAL    | 制 作<br>PREPARED |
| 王 伟                | 刘 国 华           |

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

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## KNSCHA ELECTRONICS CO., LIMITED

IATF16949:2016 ISO9001:2015 ISO14001:2015

### Aluminum Electrolytic Capacitors

- Source Manufacturer
- 25+ Years Experience
- 7X24 Hours Online Service



### Film Capacitors

- Source Manufacturer
- 10+ Years Experience



c **UL** <sup>®</sup> US

**EN** <sup>10</sup>

**DE**

**CQC**

**CCC**

**TÜV**

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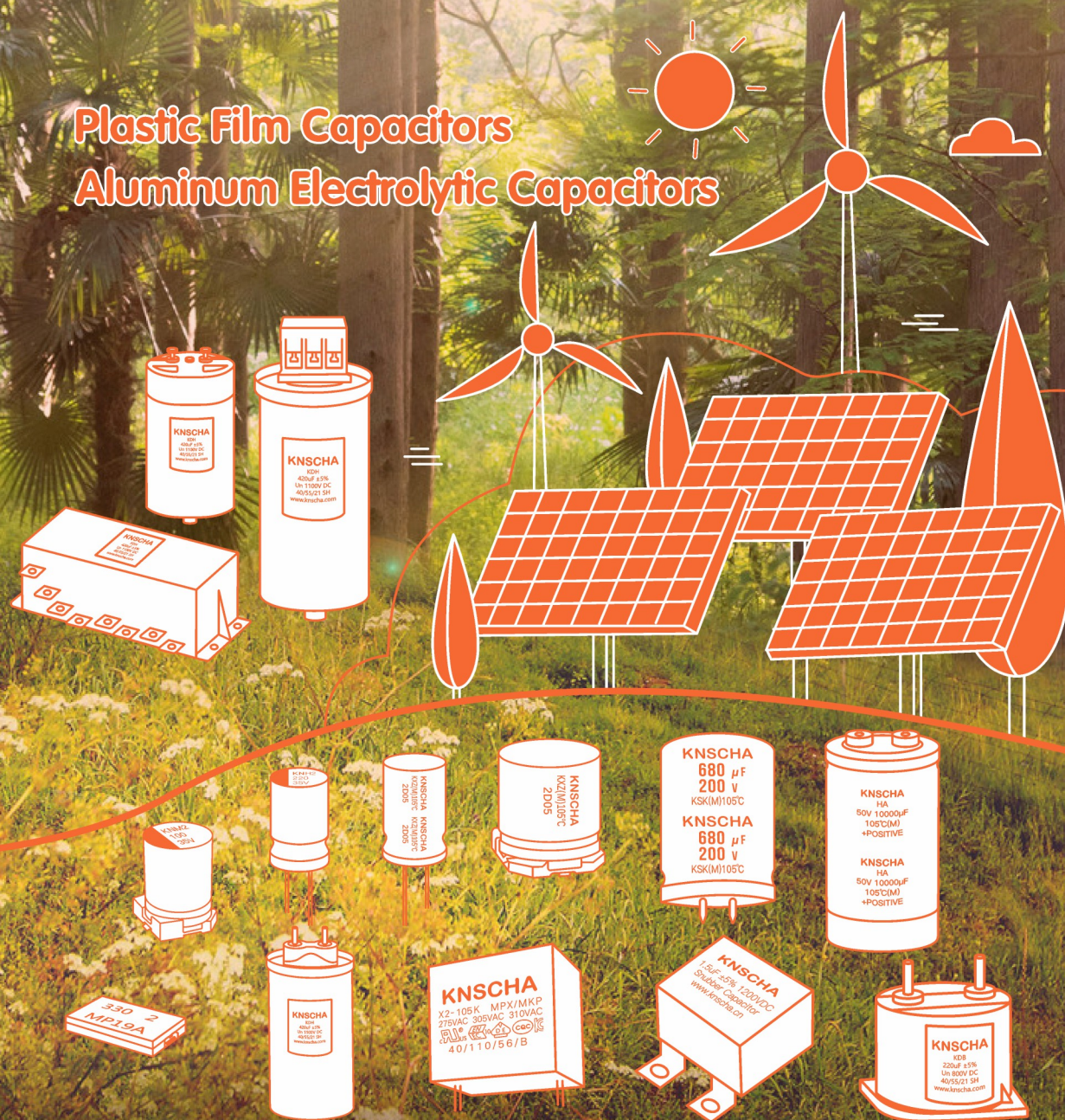
KNSCHA ELECTRONICS CO., LIMITED is a manufacturing high-tech enterprise founded in 1987 with aluminum electrolytic capacitors and film capacitors as its core for automotive, renewable energy, industrial and consumer electronics. We are working on developing aluminum electrolytic capacitors and plastic film capacitors having higher performance and higher reliability and its product chain extends to multiple categories such as electric double layer capacitors, ceramic capacitors and resistors under the trademark "KNSCHA", quickly responding to customer needs.

KNSCHA's manufacturing facilities are located in Guangdong, Hunan and Jiangxi and employ over 380 peoples. Our state-of-art manufacturing facilities including R&D, testing labs, automated manufacturing, warehousing and customer service are operate with high quality standard, using Lean manufacturing processes with a comprehensive ISO 9001/14001 and IATF 16949 management systems.

Our products have obtained UL, VDE, TÜV, ENEC10, KTL, and CQC safety certification, and comply with SGS's RoHS, Reach, AECQ-200 and National Grid Testing standards.

As a supporter of this advanced electronic industry, we are very pleased to have contributed to its development.

## Plastic Film Capacitors Aluminum Electrolytic Capacitors



**KNSCHA has knowledge and know-how as a capacitor professional manufacturer.**  
**We are always comitted to the original performance our customers need.**  
**We solves problems together with our customers.**

# KNSCHA

Empowering The World



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[illegible]

## 特性/ Features

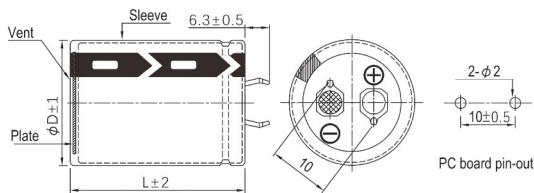
- 105°C standard series for general purposes
- Load Life: 2000 hours at 105°C
- RoHS compliant
- 一般用途品
- 105°C 负荷寿命 2000 小时
- 符合 RoHS 指令



■ 表1 规格表 Specifications

| 项目 Items                                        | 性 能 Performance                                                                                                                                                                                                                              |                                                          |      |      |      |      |      |                                                            |            |      |      |      |      |     |     |     |     |     |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------|------|------|------|------|------------------------------------------------------------|------------|------|------|------|------|-----|-----|-----|-----|-----|
| 工作温度范围<br>Category Temperature Range            | 16~100V                                                                                                                                                                                                                                      |                                                          |      |      |      |      |      |                                                            | 160~450V   |      |      |      |      |     |     |     |     |     |
|                                                 | -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℃)                  | 测试时间<br>Time                                                                                                                                                                                                                                 | 2 分钟后<br>after 2 minutes                                 |      |      |      |      |      | 5 分钟后<br>after 2 minutes                                   |            |      |      |      |      |     |     |     |     |     |
|                                                 | 漏电流<br>Leakage Current                                                                                                                                                                                                                       | I ≤ 0.03CV or 3(mA/毫安)<br>之中任一较小值以下 whichever is smaller |      |      |      |      |      | I ≤ 3√CV or 0.94 (mA/毫安)<br>之中任一较小值以下 whichever is smaller |            |      |      |      |      |     |     |     |     |     |
|                                                 | 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                                                                                                                                                                                                                        | 16                                                       | 25   | 35   | 50   | 63   | 71   | 80                                                         | 100        | 160  | 180  | 200  | 250  |     |     |     |     |     |
|                                                 | 损失角正切值<br>Tanδ (max)                                                                                                                                                                                                                         | 0.40                                                     | 0.48 | 0.46 | 0.30 | 0.20 | 0.20 | 0.20                                                       | 0.20       | 0.15 | 0.15 | 0.15 | 0.15 |     |     |     |     |     |
|                                                 | 额定电压<br>Rated Voltage                                                                                                                                                                                                                        | 315                                                      | 350  | 400  | 420  | 450  |      |                                                            |            |      |      |      |      |     |     |     |     |     |
|                                                 | 损失角正切值<br>Tanδ (max)                                                                                                                                                                                                                         | 0.15                                                     | 0.15 | 0.25 | 0.25 | 0.25 |      |                                                            |            |      |      |      |      |     |     |     |     |     |
| 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                                                                                                                                                                                                                        | 16                                                       | 25   | 35   | 50   | 63   | 71   | 80                                                         | 100        | 160  | 180  | 200  | 250  | 315 | 350 | 400 | 420 | 450 |
|                                                 | 阻抗比<br>Impedance Ratio                                                                                                                                                                                                                       | Z(-25℃)/Z(+20℃)                                          | 4    | 3    | 3    | 2    | 2    | 2                                                          | 2          | 2    | 4    | 4    | 4    | 4   | 8   | 8   | 8   | 8   |
|                                                 |                                                                                                                                                                                                                                              | Z(-40℃)/Z(+20℃)                                          | 15   | 10   | 8    | 6    | 6    | 6                                                          | 5          | 5    |      |      |      |     |     |     |     |     |
| 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                                                                                                                                                                                                                | ≤ 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% Less than 200% of specified value           |      |      |      |      |      |                                                            |            |      |      |      |      |     |     |     |     |     |
|                                                 | 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                                                                                                                                                                                                                | ≤ 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% Less than 200% of specified value           |      |      |      |      |      |                                                            |            |      |      |      |      |     |     |     |     |     |
|                                                 | 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

|      |         |    |    |    |    |    |       |    |    |    |    |  |
|------|---------|----|----|----|----|----|-------|----|----|----|----|--|
| ΦD±1 | 22,25.4 |    |    |    |    |    | 30,35 |    |    |    |    |  |
| L±2  | 25      | 30 | 35 | 40 | 45 | 50 | 30    | 35 | 40 | 45 | 50 |  |

■ 表3 纹波电流与频率补正系数

Ripple Current and Frequency Multipliers

| Freq.(Hz)        |             | 60         | 120 | 500  | 1K  | 100K |
|------------------|-------------|------------|-----|------|-----|------|
| Rated Volt.(Vdc) | Coefficient | $\leq 100$ | 0.8 | 1.00 | 1.2 | 1.2  |
|                  |             | $\geq 160$ | 0.8 | 1.00 | 1.2 | 1.3  |

■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.(Voc)       | 16           |       | 25           |       | 35           |       | 50           |       | 63           |       | 71           |       | 80           |       |
|------------------------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|
| Surge Volt.(Voc)       | 20           |       | 32           |       | 44           |       | 63           |       | 79           |       | 89           |       | 100          |       |
| Item<br>Cap.( $\mu$ F) | D $\times$ L | R. C. | D $\times$ L | R. C. | D $\times$ L | R. C. | D $\times$ L | R. C. | D $\times$ L | R. C. | D $\times$ L | R. C. | D $\times$ L | R. C. |
| 1000                   |              |       |              |       |              |       |              |       |              |       |              |       | 22x25        | 1560  |
| 2200                   |              |       |              |       |              |       | 22x25        | 1930  | 22x30        | 2300  | 22x40        | 1595  | 22x40        | 2500  |
| 3300                   |              |       |              |       |              |       | 22x35        | 2380  | 22x30        | 2500  | 22x45        | 2072  | 22x50        | 3000  |
|                        |              |       |              |       |              |       |              |       | 22x40        | 2690  |              |       | 25.4x40      | 3230  |
|                        |              |       |              |       |              |       |              |       |              |       |              |       | 30x30        | 3000  |
| 4700                   |              |       |              |       | 22x30        | 2430  | 22x40        | 3010  | 25.4x40      | 3370  | 25.4x50      | 2779  | 30x40        | 4100  |
| 5600                   |              |       |              |       | 22x35        | 2500  | 25.4x40      | 3500  |              |       |              |       |              |       |
| 6800                   |              |       | 22x30        | 2560  | 22x40        | 2890  | 25.4x40      | 3870  | 25.4x50      | 4330  | 30x45        | 3008  | 30x50        | 5140  |
| 8200                   |              |       | 22x35        | 2810  | 22x45        | 3290  | 30x50        | 4370  | 30x45        | 4800  | 35x45        | 3568  | 35x45        | 5830  |
| 10000                  | 22x25        | 2810  | 22x40        | 3160  | 25.4x35      | 3300  | 30x50        | 4920  | 30x50        | 5470  |              |       |              |       |
|                        |              |       |              |       | 25.4x40      | 3590  |              |       |              |       |              |       |              |       |
|                        |              |       |              |       | 25.4x45      | 3590  |              |       |              |       |              |       |              |       |
| 12000                  | 22x30        | 3286  | 22x40        | 3480  | 25.4x45      | 4010  | 30x50        | 5600  | 35x50        | 6300  |              |       |              |       |
| 15000                  | 22x35        | 3576  | 22x50        | 4000  | 30x40        | 4080  | 35x45        | 6440  |              |       |              |       |              |       |
| 18000                  | 22x40        | 4101  | 25.4x45      | 4660  | 30x45        | 5180  | 35x50        | 6710  |              |       |              |       |              |       |
| 22000                  | 22x40        | 4520  |              |       |              |       |              |       |              |       |              |       |              |       |

制品尺寸与容许纹波电流一览表

尺寸: 直径( $\phi D$ ) $\times$ 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.(Voc)       | 100              |       | 160              |       | 180              |       | 200              |       |
|------------------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
| Surge Volt.(Voc)       | 125              |       | 200              |       | 200              |       | 250              |       |
| Item<br>Cap.( $\mu$ F) | D $\times$ L     | R. C. | D $\times$ L     | R. C. | D $\times$ L     | R. C. | D $\times$ L     | R. C. |
| 100                    |                  |       |                  |       |                  |       | 22 $\times$ 25   | 360   |
| 150                    |                  |       |                  |       |                  |       | 22 $\times$ 25   | 500   |
| 220                    |                  |       |                  |       |                  |       | 22 $\times$ 25   | 600   |
| 330                    |                  |       |                  |       |                  |       | 22 $\times$ 25   | 890   |
| 470                    |                  |       | 22 $\times$ 30   | 1110  | 22 $\times$ 25   | 1450  | 22 $\times$ 35   | 1100  |
| 560                    |                  |       | 22 $\times$ 25   | 1580  | 22 $\times$ 30   | 1660  | 22 $\times$ 30   | 1660  |
|                        |                  |       |                  |       |                  |       | 25.4 $\times$ 25 | 1560  |
|                        |                  |       |                  |       |                  |       | 25.4 $\times$ 35 | 1700  |
| 680                    |                  |       | 22 $\times$ 30   | 1830  | 22 $\times$ 35   | 1450  | 22 $\times$ 35   | 1870  |
|                        |                  |       | 22 $\times$ 40   | 2220  | 22 $\times$ 30   | 1660  | 22 $\times$ 45   | 1870  |
|                        |                  |       |                  |       |                  |       | 25.4 $\times$ 30 | 1770  |
| 820                    |                  |       | 22 $\times$ 35   | 2060  | 22 $\times$ 40   | 2110  | 22 $\times$ 40   | 2110  |
|                        |                  |       |                  |       |                  |       | 25.4 $\times$ 30 | 2030  |
|                        |                  |       | 25.4 $\times$ 25 | 1890  | 25.4 $\times$ 30 | 1940  | 25.4 $\times$ 40 | 2170  |
|                        |                  |       |                  |       |                  |       | 30 $\times$ 25   | 1720  |
| 1000                   | 22 $\times$ 30   | 2020  | 22 $\times$ 40   | 2330  | 22 $\times$ 45   | 2380  | 22 $\times$ 50   | 2450  |
|                        | 25.4 $\times$ 25 | 2000  | 25.4 $\times$ 30 | 2150  | 25.4 $\times$ 35 | 2240  | 25.4 $\times$ 40 | 2300  |
|                        |                  |       | 30 $\times$ 25   | 1900  | 30 $\times$ 25   | 1900  | 30 $\times$ 30   | 1950  |
|                        |                  |       | 30 $\times$ 40   | 2403  |                  |       |                  |       |
| 1200                   |                  |       | 22 $\times$ 45   | 2610  | 22 $\times$ 50   | 2690  | 25.4 $\times$ 45 | 2580  |
|                        |                  |       | 22 $\times$ 50   | 2690  | 25.4 $\times$ 40 | 2520  | 30 $\times$ 35   | 2230  |
|                        |                  |       | 25.4 $\times$ 35 | 2450  | 30 $\times$ 30   | 2140  | 35 $\times$ 25   | 1940  |
|                        |                  |       |                  |       | 35 $\times$ 25   | 1940  |                  |       |
| 1500                   |                  |       | 25.4 $\times$ 40 | 2820  | 25.4 $\times$ 45 | 2880  | 25.4 $\times$ 50 | 2940  |
|                        |                  |       | 25.4 $\times$ 45 | 2880  | 25.4 $\times$ 50 | 2940  | 30 $\times$ 40   | 2580  |
|                        |                  |       | 30 $\times$ 30   | 2390  | 30 $\times$ 35   | 2490  | 35 $\times$ 30   | 2250  |
|                        |                  |       | 35 $\times$ 25   | 2170  |                  |       |                  |       |
| 1800                   |                  |       | 25.4 $\times$ 50 | 3220  | 30 $\times$ 40   | 2820  | 30 $\times$ 45   | 2920  |
|                        |                  |       | 30 $\times$ 35   | 2730  |                  |       |                  |       |
|                        |                  |       | 30 $\times$ 40   | 2820  | 35 $\times$ 30   | 2470  | 35 $\times$ 35   | 2530  |
|                        |                  |       | 35 $\times$ 30   | 2470  |                  |       |                  |       |
| 2200                   | 22 $\times$ 45   | 2000  | 30 $\times$ 45   | 3230  | 30 $\times$ 45   | 3230  | 30 $\times$ 50   | 3110  |
|                        | 25.4 $\times$ 40 | 2200  | 35 $\times$ 35   | 2790  | 30 $\times$ 50   | 3310  |                  |       |
|                        |                  |       | 35 $\times$ 45   | 3164  | 35 $\times$ 35   | 2790  | 35 $\times$ 40   | 2920  |
|                        |                  |       |                  |       | 35 $\times$ 40   | 2920  |                  |       |
| 2700                   |                  |       | 30 $\times$ 50   | 3660  | 35 $\times$ 45   | 3330  | 35 $\times$ 45   | 3330  |
|                        |                  |       | 35 $\times$ 40   | 3230  |                  |       |                  |       |
| 3300                   | 25.4 $\times$ 45 | 3000  | 35 $\times$ 45   | 3680  |                  |       |                  |       |
| 4700                   | 30 $\times$ 50   | 4000  |                  |       |                  |       |                  |       |
| 6800                   | 35 $\times$ 50   | 6010  |                  |       |                  |       |                  |       |

制品尺寸与容许纹波电流一览表

尺寸: 直径( $\phi D$ ) $\times$ 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) | 250     |       | 315     |       | 350     |       | 400     |       | 420     |       | 450     |       |       |      |
|------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------|------|
| Surge Volt.(Vdc) | 300     |       | 365     |       | 400     |       | 450     |       | 470     |       | 500     |       |       |      |
| 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. |       |      |
| 47               |         |       |         |       |         |       |         |       |         |       | 22×25   | 147   |       |      |
| 68               |         |       |         |       |         |       | 22×25   | 565   |         |       | 22×30   | 670   |       |      |
| 82               |         |       |         |       |         |       | 22×25   | 620   |         |       | 22×35   | 760   |       |      |
| 100              |         |       |         |       |         |       | 22×30   | 715   |         |       | 22×25   | 710   |       |      |
|                  |         |       |         |       |         |       |         |       |         |       | 22×35   | 840   |       |      |
| 120              |         |       |         |       |         |       | 22×25   | 750   | 22×25   | 780   | 22×30   | 820   |       |      |
|                  |         |       |         |       |         |       | 22×35   | 887   |         |       | 22×40   | 940   |       |      |
| 150              | 22×25   | 1000  |         |       | 22×25   | 840   | 22×30   | 800   | 22×30   | 910   | 22×35   | 940   |       |      |
|                  |         |       |         |       |         |       | 22×40   | 924   | 25.4×25 | 890   | 25.4×25 | 890   |       |      |
|                  |         |       |         |       |         |       |         |       |         |       | 25.4×40 | 1120  |       |      |
| 180              | 22×25   | 1140  | 22×25   | 910   |         |       | 22×30   | 960   | 22×35   | 1030  | 22×40   | 1050  |       |      |
|                  |         |       |         |       |         |       | 25.4×25 | 940   | 25.4×30 | 1000  | 25.4×30 | 1000  |       |      |
|                  |         |       |         |       |         |       | 25.4×35 | 1112  |         |       | 25.4×45 | 1225  |       |      |
| 220              | 22×30   | 1180  | 22×30   | 1060  | 22×30   | 1060  | 22×35   | 1090  | 22×40   | 1160  | 22×45   | 1190  |       |      |
|                  |         |       |         |       |         |       | 25.4×30 | 1070  | 22×45   | 1190  | 25.4×35 | 1160  |       |      |
|                  |         |       |         |       | 25.4×25 | 1040  | 25.4×35 | 1152  | 25.4×35 | 1160  | 30×25   | 1110  |       |      |
|                  |         |       |         |       |         |       | 25.4×40 | 1235  | 30×25   | 1110  | 30×30   | 1110  |       |      |
|                  |         |       |         |       |         |       |         |       |         |       | 30×40   | 1404  |       |      |
| 270              |         |       | 22×35   | 1200  | 22×35   | 1200  | 22×40   | 1240  | 22×50   | 1360  | 22×50   | 1360  |       |      |
|                  |         |       |         |       |         |       | 22×45   | 1260  | 25.4×40 | 1320  | 25.4×40 | 1320  |       |      |
|                  |         |       | 25.4×25 | 1150  | 25.4×30 | 1180  | 25.4×35 | 1230  | 30×30   | 1260  | 25.4×45 | 1350  |       |      |
|                  |         |       |         |       |         |       | 30×25   | 1160  |         |       | 30×30   | 1260  |       |      |
|                  |         |       |         |       |         |       |         |       | 30×35   | 1372  | 35×25   | 1260  | 30×40 | 1455 |
| 330              | 22×25   | 1210  | 22×40   | 1370  | 22×40   | 1370  | 22×50   | 1440  | 25.4×45 | 1490  | 25.4×40 | 1420  |       |      |
|                  |         |       |         |       | 22×45   | 1400  |         |       |         |       | 25.4×40 | 1450  | 30×35 | 1450 |
|                  |         |       |         |       | 25.4×35 | 1360  | 30×30   | 1310  |         |       | 30×40   | 1500  |       |      |
|                  | 22×40   | 1530  | 25.4×30 | 1300  | 30×25   | 1280  | 30×45   | 1450  | 30×35   | 1450  | 30×45   | 1644  |       |      |
|                  |         |       |         |       |         |       | 35×25   | 1270  |         |       | 35×30   | 1450  |       |      |
|                  |         |       |         |       |         |       |         |       |         |       |         |       |       |      |
| 390              | 22×30   | 1380  | 22×45   | 1520  | 22×50   | 1560  | 25.4×45 | 1550  | 25.4×50 | 1660  | 30×40   | 1630  |       |      |
|                  |         |       | 25.4×35 | 1480  | 25.4×40 | 1520  |         |       | 30×40   | 1630  |         |       |       |      |
|                  |         |       | 30×25   | 1390  | 30×30   | 1430  | 30×35   | 1490  | 35×30   | 1580  |         |       |       |      |
|                  |         |       |         |       | 35×25   | 1380  |         |       |         |       |         |       |       |      |
|                  |         |       |         |       |         |       |         |       |         |       |         |       |       |      |
| 470              | 22×35   | 1560  | 22×50   | 1720  | 25.4×45 | 1710  | 25.4×50 | 1740  | 30×45   | 1850  | 30×45   | 1850  |       |      |
|                  |         |       | 25.4×40 | 1670  |         |       | 30×40   | 1690  |         |       | 30×50   | 1900  |       |      |
|                  | 25.4×40 | 1780  | 30×30   | 1570  |         |       | 35×30   | 1580  | 35×35   | 1770  | 35×35   | 1770  |       |      |
|                  |         |       | 35×25   | 1520  |         |       | 35×45   | 1935  |         |       |         |       |       |      |
|                  |         |       |         |       |         |       |         |       |         |       | 35×50   | 2052  |       |      |
| 560              | 22×40   | 1740  | 25.4×45 | 1860  | 25.4×50 | 1900  | 30×45   | 1910  | 30×50   | 2070  | 30×50   | 2070  |       |      |
|                  | 25.4×30 | 1610  |         |       | 30×35   | 1780  | 35×35   | 1760  |         |       | 35×40   | 2020  |       |      |
|                  | 25.4×45 | 1740  |         |       | 30×40   | 1840  | 35×45   | 1995  | 35×40   | 2020  | 35×45   | 2080  |       |      |
|                  | 30×25   | 1420  |         |       | 35×30   | 1720  |         |       |         |       |         |       |       |      |
| 680              | 22×45   | 1970  | 25.4×50 | 2100  | 30×45   | 2100  | 30×50   | 2150  | 35×45   | 2290  | 35×50   | 2360  |       |      |
|                  | 25.4×35 | 1850  | 30×40   | 2030  | 35×35   | 1940  | 35×40   | 2030  |         |       |         |       |       |      |
|                  | 25.4×40 | 1980  | 35×30   | 1900  |         |       | 35×50   | 2269  |         |       |         |       |       |      |
| 820              | 25.4×40 | 2080  | 30×45   | 2310  | 30×50   | 2360  | 35×45   | 2300  | 35×50   | 2590  |         |       |       |      |
|                  | 25.4×45 | 2130  |         |       |         |       |         |       |         |       |         |       |       |      |
|                  | 30×30   | 1770  | 35×35   | 2130  | 35×40   | 2230  | 35×50   | 2370  |         |       |         |       |       |      |
|                  | 35×25   | 1600  |         |       |         |       |         |       |         |       |         |       |       |      |
| 1000             | 25.4×50 | 2400  | 30×50   | 2610  | 35×45   | 2540  |         |       |         |       |         |       |       |      |
|                  | 30×35   | 2030  | 35×40   | 2460  |         |       |         |       |         |       |         |       |       |      |
|                  | 30×45   | 2495  |         |       |         |       |         |       |         |       |         |       |       |      |
| 1200             | 30×40   | 2310  | 35×45   | 2780  | 35×50   | 2860  |         |       |         |       |         |       |       |      |
|                  | 30×45   | 2380  |         |       |         |       |         |       |         |       |         |       |       |      |
|                  | 35×35   | 2060  |         |       |         |       |         |       |         |       |         |       |       |      |
| 1500             | 30×50   | 2730  |         |       |         |       |         |       |         |       |         |       |       |      |
|                  | 35×40   | 2410  |         |       |         |       |         |       |         |       |         |       |       |      |
| 1800             | 35×45   | 2720  |         |       |         |       |         |       |         |       |         |       |       |      |
| 2200             | 35×50   | 3100  |         |       |         |       |         |       |         |       |         |       |       |      |

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

| L                                                          | SG                 | 450                                                                                                                                                          | M                                           | 227                   | R30               | 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 |      |     |  |                                                                                                                                                                                                                                                                          |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                             |          |        |       |     |  |
| 基板自立型铝电解电容器<br>Snap-in<br>Aluminum Electrolytic Capacitors | KSG Series         | 范例Example:                                                                                                                                                   | M=±20%                                      | 范例Example:            | 范例Example:        | 黑体银字<br>Black body silver print |                          |                                       |                       |      |     |  |                                                                                                                                                                                                                                                                          |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                             |          |        |       |     |  |
|                                                            |                    | <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 |  | <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 | <table><tr><th>Dim.(mm)</th><th>Symbol</th></tr><tr><td>25x30</td><td>R30</td></tr></table> | Dim.(mm) | Symbol | 25x30 | R30 |  |
|                                                            |                    | 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                |                                                                                                                                                              |                                             |                       |                   |                                 |                          |                                       |                       |      |     |  |                                                                                                                                                                                                                                                                          |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                             |          |        |       |     |  |
| Dim.(mm)                                                   | Symbol             |                                                                                                                                                              |                                             |                       |                   |                                 |                          |                                       |                       |      |     |  |                                                                                                                                                                                                                                                                          |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                             |          |        |       |     |  |
| 25x30                                                      | R30                |                                                                                                                                                              |                                             |                       |                   |                                 |                          |                                       |                       |      |     |  |                                                                                                                                                                                                                                                                          |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                             |          |        |       |     |  |
|                                                            |                    |                                                                                                                                                              |                                             |                       |                   |                                 |                          |                                       |                       |      |     |  |                                                                                                                                                                                                                                                                          |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                             |          |        |       |     |  |
|                                                            |                    |                                                                                                                                                              |                                             |                       |                   |                                 |                          |                                       |                       |      |     |  |                                                                                                                                                                                                                                                                          |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                             |          |        |       |     |  |
|                                                            |                    |                                                                                                                                                              |                                             |                       |                   |                                 |                          |                                       |                       |      |     |  |                                                                                                                                                                                                                                                                          |      |        |       |     |       |     |      |     |       |     |        |     |         |     |                                                                                             |          |        |       |     |  |

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