

Specification for approval

客户名称:

(Customer Name)

深圳市立创商城电子商务有限公司

产品名称:

(Product Name)

电解电容

Aluminum Electrolytic Capacitor

客户料号:

(Customer part number)

科尼盛料号:

(KNSCHA number)

DHG160M157L250S1AA

型号规格:

(Specifications)

160V/150UF 13\*25mm SHG

日期:

DATE

2025.2.26

| 制 造<br>Manufacture |                 |
|--------------------|-----------------|
| 核 准<br>APPROVAL    | 制 作<br>PREPARED |
| 王师                 | 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.

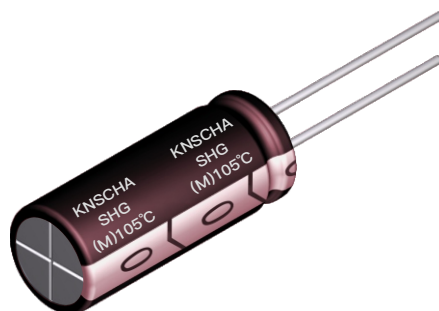
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## 特征/FEATURES

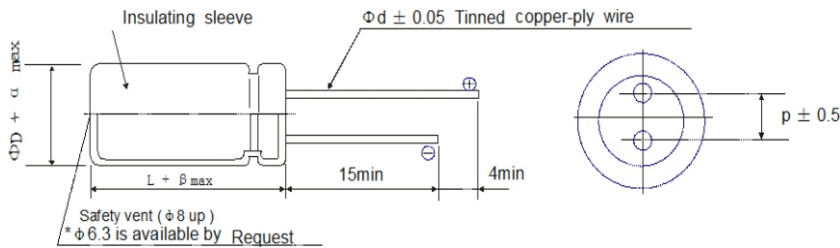
- 105℃ Long Life, High Ripple Current and Low Impedance
- Load Life 7000~10000 hours
- Compliant to the RoHS directive
- 105℃长寿命、高纹波和低阻抗品
- 寿命7000~10000小时
- RoHS指令对策品



| 项目 Items                                                         | 特征 Characteristics                                                                                                                                                                                                                                                                                              |                                            |                                                 |                   |             |                                                                                                     |                |             |                           |  |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------|-------------|-----------------------------------------------------------------------------------------------------|----------------|-------------|---------------------------|--|
| 温度范围<br>Category Temperat Range                                  | -55℃~+105℃                                                                                                                                                                                                                                                                                                      |                                            |                                                 |                   | -40℃~+105℃  |                                                                                                     |                | -40℃~+105℃  |                           |  |
| 规格电压范围<br>Rated voltage range                                    | 6.3~100V.DC                                                                                                                                                                                                                                                                                                     |                                            |                                                 |                   | 160~250V.DC |                                                                                                     |                | 400~450V.DC |                           |  |
| 静电容量允许容差<br>Capacitance Tolerance                                | ±20% (20℃,120Hz)                                                                                                                                                                                                                                                                                                |                                            |                                                 |                   |             |                                                                                                     |                |             |                           |  |
| 漏电流<br>Leakage Current(MAX)                                      | 6.3~100V.DC                                                                                                                                                                                                                                                                                                     |                                            |                                                 |                   |             | 160~450V.DC                                                                                         |                |             |                           |  |
|                                                                  | I=0.01CV或者3 ( μ A ) 值以下 定格电压印加2分钟后<br>I=0.01CVor3 ( μ A ) whichever is greater after 2 minutes application of rated voltage                                                                                                                                                                                     |                                            |                                                 |                   |             | I=0.02CV值以下 定格电压印加3分钟后<br>I=0.02CVwhichever is greater after 3 minutes application of rated voltage |                |             |                           |  |
|                                                                  | I=漏电流 ( μ A )                                                                                                                                                                                                                                                                                                   |                                            |                                                 | C=定格静电容量 ( μ F )  |             |                                                                                                     | V=定格电压 ( V )   |             |                           |  |
|                                                                  | Leakage Current                                                                                                                                                                                                                                                                                                 |                                            |                                                 | Rated Capacitance |             |                                                                                                     | Rated Voltage  |             |                           |  |
| 损失角正接 ( tan δ )<br>Dissipation Factor(MAX)                       | 定格电压 ( V )                                                                                                                                                                                                                                                                                                      | 6.3                                        | 10                                              | 16                | 25          | 35                                                                                                  | 50             | 63          | 20℃<br><br>120Hz          |  |
|                                                                  | Rated Voltage                                                                                                                                                                                                                                                                                                   | 0.22                                       | 0.2                                             | 0.16              | 0.14        | 0.12                                                                                                | 0.1            | 0.09        |                           |  |
|                                                                  | 定格电压 ( V )                                                                                                                                                                                                                                                                                                      | 80                                         | 100                                             | 160               | 200         | 250                                                                                                 | 400            | 450         |                           |  |
|                                                                  | Rated Voltage                                                                                                                                                                                                                                                                                                   | 0.09                                       | 0.08                                            | 0.15              | 0.15        | 0.15                                                                                                | 0.15           | 0.15        |                           |  |
|                                                                  | 容量超过1000 μ F; 每超过1000 μ F, 损失角增加0.02 Add 0.02 per 1,000 μ F for more than 1,000 μ F items.                                                                                                                                                                                                                      |                                            |                                                 |                   |             |                                                                                                     |                |             |                           |  |
| 高温负荷特性<br>High Temp Load Test                                    | 105℃.在规定的时间内,印加定格电压与纹波电流后,满足下列条件<br>After life test with ripple current at conditions stated in the table below ,the capacitors shall meet the following requirements.                                                                                                                                          |                                            |                                                 |                   |             |                                                                                                     |                |             |                           |  |
|                                                                  | 静电容量变化率<br>Capacitance Change                                                                                                                                                                                                                                                                                   |                                            | 初期值的 ±25%<br>Within ± 25%                       |                   |             |                                                                                                     | 直径<br>Case Dia |             | 寿命时间 ( hrs )<br>Life Time |  |
|                                                                  | 损失角正接 ( tan δ )<br>Dissipation Factor                                                                                                                                                                                                                                                                           |                                            | 规格值的200%以内<br>Not more than the specified value |                   |             |                                                                                                     | Φ ≤6.3         |             | 7000                      |  |
|                                                                  |                                                                                                                                                                                                                                                                                                                 |                                            |                                                 |                   |             |                                                                                                     | Φ ≤8           |             | 8000                      |  |
| 漏电流<br>Leakage Current(MAX)                                      |                                                                                                                                                                                                                                                                                                                 | 规格值以下<br>Not more than the specified value |                                                 |                   |             | Φ ≥10                                                                                               |                | 10000       |                           |  |
| 低温特性 ( 抵抗比 )<br>Low Temperature Stability<br>impedance Ratio MAX | 规格电压 ( V )<br>Rated Voltage                                                                                                                                                                                                                                                                                     |                                            | 6.3~16V                                         | 25~50V            | 63~100V     | 160V~200V                                                                                           | 250V           | 400V        | 450V                      |  |
|                                                                  | Z(-25℃)/Z(20℃)                                                                                                                                                                                                                                                                                                  |                                            | 4                                               | 3                 | 3           | 3                                                                                                   | 4              | 4           | 4                         |  |
|                                                                  | Z(-40℃)/Z(20℃)                                                                                                                                                                                                                                                                                                  |                                            | 10                                              | 8                 | 6           | 6                                                                                                   | 8              | 10          | 10                        |  |
| 高温无负荷特性<br>High TempNon- Load Test                               | After storage for 1000 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made,at which time requirements specified in the table "High Temperature Loading"can be met. 在105℃的条件下不加电压放置1000个小时, 按照JIS-C-5102中4-4的标准进行处理, 特性满足高温负荷特性 |                                            |                                                 |                   |             |                                                                                                     |                |             |                           |  |

SHG Series

寸法图DIMENSIONS



| ΦD-Φd   | P    | β   | α   |
|---------|------|-----|-----|
| 5-0.5   | 2.0  | 1.0 | 0.5 |
| 6.3-0.5 | 2.5  | 1.0 | 0.5 |
| 8-0.5   | 3.5  | 1.5 | 0.5 |
| 10-0.6  | 5.0  | 1.5 | 0.5 |
| 13-0.6  | 5.0  | 1.5 | 0.5 |
| 16-0.8  | 7.5  | 1.5 | 0.5 |
| 18-0.8  | 7.5  | 1.5 | 0.5 |
| 20-1.0  | 10.0 | 2.0 | 0.5 |

▼MULTIPLIER FOR RIPPLE CURRENT 纹波电流修正系数

(1) Frequeny coefficient频率系数

| Freq.(Hz)   | 120  | 1K   | 10K  | 100K | (2) Temperature coefficient |      |      |      |      |
|-------------|------|------|------|------|-----------------------------|------|------|------|------|
| Cap(μ F)    |      |      |      |      | Ambient Temperature(℃)      | 65   | 75   | 85   | 105  |
| 0.1~ 47     | 0.40 | 0.60 | 0.80 | 1.00 |                             |      |      |      |      |
| 68 ~ 680    | 0.70 | 0.85 | 0.95 | 1.00 | Coefficient                 | 1.40 | 1.25 | 1.10 | 1.00 |
| 1000 ~22000 | 0.80 | 0.90 | 0.95 | 1.00 |                             |      |      |      |      |

标准品一览表/STANDARD SIZE

| 定格电压 Rated voltage 6.3V 0J      |                         |                                                     |                           |       |  |
|---------------------------------|-------------------------|-----------------------------------------------------|---------------------------|-------|--|
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s./105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |  |
|                                 |                         |                                                     | 20℃                       | -10℃  |  |
| 100                             | 5*11                    | 150                                                 | 0.900                     | 4.000 |  |
| 220                             | 6.3*11                  | 250                                                 | 0.550                     | 2.500 |  |
| 330                             | 6.3*11                  | 250                                                 | 0.550                     | 2.500 |  |
| 470                             | 8*12                    | 400                                                 | 0.450                     | 2.300 |  |
| 680                             | 8*12                    | 460                                                 | 0.350                     | 1.800 |  |
| 1000                            | 8*12                    | 490                                                 | 0.300                     | 1.500 |  |
| 1000                            | 10*12.5                 | 580                                                 | 0.200                     | 1.300 |  |
| 2200                            | 10*20                   | 1250                                                | 0.140                     | 0.900 |  |
| 3300                            | 13*21                   | 1350                                                | 0.090                     | 0.650 |  |
| 4700                            | 13*25                   | 1850                                                | 0.065                     | 0.450 |  |
| 6800                            | 13*25                   | 1950                                                | 0.060                     | 0.350 |  |
| 定格电压 Rated voltage 10V 1A       |                         |                                                     |                           |       |  |
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s./105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |  |
|                                 |                         |                                                     | 20℃                       | -10℃  |  |
| 100                             | 5*11                    | 160                                                 | 0.900                     | 3.600 |  |
| 220                             | 6.3*11                  | 190                                                 | 0.500                     | 3.200 |  |
| 330                             | 8*12                    | 380                                                 | 0.450                     | 3.000 |  |
| 470                             | 8*12                    | 420                                                 | 0.350                     | 2.400 |  |
| 680                             | 10*12.5                 | 550                                                 | 0.250                     | 1.800 |  |
| 1000                            | 10*16                   | 770                                                 | 0.180                     | 1.600 |  |
| 1500                            | 10*16                   | 900                                                 | 0.150                     | 1.400 |  |
| 2200                            | 10*20                   | 1300                                                | 0.095                     | 1.200 |  |
| 3300                            | 13*21                   | 1650                                                | 0.085                     | 1.000 |  |
| 4700                            | 13*25                   | 1950                                                | 0.055                     | 0.850 |  |

SHG Series

标准品一览表/STANDARD SIZE

| 定格电压 Rated voltage 16V 1C       |                         |                                                     |                           |       |
|---------------------------------|-------------------------|-----------------------------------------------------|---------------------------|-------|
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s./105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                     | 20℃                       | -10℃  |
| 47                              | 5*11                    | 130                                                 | 0.900                     | 3.600 |
| 68                              | 5*11                    | 150                                                 | 0.750                     | 3.100 |
| 100                             | 6.3*11                  | 175                                                 | 0.650                     | 2.800 |
| 220                             | 6.3*11                  | 330                                                 | 0.600                     | 2.600 |
| 220                             | 8*12                    | 400                                                 | 0.550                     | 2.200 |
| 330                             | 8*12                    | 420                                                 | 0.450                     | 2.000 |
| 470                             | 8*12                    | 500                                                 | 0.400                     | 1.800 |
| 560                             | 8*15                    | 650                                                 | 0.280                     | 1.500 |
| 680                             | 8*15                    | 800                                                 | 0.220                     | 1.300 |
| 1000                            | 10*16                   | 1100                                                | 0.140                     | 0.820 |
| 1500                            | 10*20                   | 1450                                                | 0.120                     | 0.800 |
| 1800                            | 13*16                   | 1550                                                | 0.090                     | 0.650 |
| 2200                            | 13*20                   | 1650                                                | 0.085                     | 0.550 |
| 3300                            | 13*25                   | 1850                                                | 0.075                     | 0.420 |
| 3300                            | 16*20                   | 2000                                                | 0.070                     | 0.400 |
| 4700                            | 16*25                   | 2200                                                | 0.062                     | 0.350 |
| 5600                            | 16*31                   | 2400                                                | 0.055                     | 0.280 |
| 6800                            | 16*35                   | 2600                                                | 0.050                     | 0.220 |
| 10000                           | 18*35                   | 2850                                                | 0.045                     | 0.200 |
| 10000                           | 18*40                   | 2900                                                | 0.042                     | 0.200 |
| 定格电压 Rated voltage 25V 1E       |                         |                                                     |                           |       |
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s./105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                     | 20℃                       | -10℃  |
| 10                              | 5*11                    | 75                                                  | 1.100                     | 4.300 |
| 22                              | 5*11                    | 90                                                  | 1.020                     | 4.100 |
| 33                              | 5*11                    | 130                                                 | 0.900                     | 3.600 |
| 47                              | 5*11                    | 150                                                 | 0.750                     | 3.100 |
| 68                              | 5*11                    | 175                                                 | 0.650                     | 2.800 |
| 100                             | 6.3*11                  | 330                                                 | 0.600                     | 2.600 |
| 220                             | 8*12                    | 400                                                 | 0.550                     | 2.200 |
| 330                             | 8*12                    | 460                                                 | 0.450                     | 2.000 |
| 470                             | 8*12                    | 470                                                 | 0.400                     | 1.800 |
| 470                             | 10*12.5                 | 540                                                 | 0.350                     | 1.800 |
| 560                             | 10*12.5                 | 680                                                 | 0.220                     | 1.600 |
| 680                             | 10*16                   | 860                                                 | 0.190                     | 1.450 |
| 1000                            | 10*16                   | 1200                                                | 0.110                     | 1.250 |
| 1000                            | 10*20                   | 1250                                                | 0.095                     | 1.150 |
| 1500                            | 13*20                   | 1550                                                | 0.085                     | 1.100 |
| 1800                            | 13*20                   | 1750                                                | 0.065                     | 0.900 |
| 2200                            | 13*21                   | 1850                                                | 0.055                     | 0.700 |
| 2200                            | 13*25                   | 1950                                                | 0.050                     | 0.700 |
| 3300                            | 16*22                   | 2100                                                | 0.045                     | 0.600 |
| 3300                            | 16*25                   | 2250                                                | 0.045                     | 0.600 |
| 4700                            | 16*32                   | 2350                                                | 0.045                     | 0.500 |
| 5600                            | 18*32                   | 2650                                                | 0.043                     | 0.450 |
| 6800                            | 18*35                   | 2800                                                | 0.035                     | 0.400 |
| 10000                           | 18*42                   | 3100                                                | 0.033                     | 0.380 |

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标准品一览表/STANDARD SIZE

| 定格电压 Rated voltage 35V 1V       |                         |                                                     |                           |       |
|---------------------------------|-------------------------|-----------------------------------------------------|---------------------------|-------|
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ DxL (mm) | 定格电流 Rated ripple current<br>m A r.m.s./105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                     | 20℃                       | -10℃  |
| 10                              | 5*11                    | 90                                                  | 3.800                     | 8.300 |
| 22                              | 5*11                    | 100                                                 | 3.100                     | 7.600 |
| 33                              | 5*11                    | 140                                                 | 2.800                     | 6.800 |
| 47                              | 5*11                    | 165                                                 | 2.500                     | 6.200 |
| 68                              | 6.3*11                  | 210                                                 | 2.300                     | 5.900 |
| 100                             | 8*12                    | 400                                                 | 0.800                     | 3.600 |
| 220                             | 8*12                    | 460                                                 | 0.650                     | 3.300 |
| 330                             | 10*12.5                 | 680                                                 | 0.400                     | 2.800 |
| 470                             | 10*16                   | 960                                                 | 0.220                     | 2.200 |
| 470                             | 10*20                   | 1050                                                | 0.110                     | 1.600 |
| 560                             | 10*20                   | 1100                                                | 0.090                     | 0.700 |
| 680                             | 10*20                   | 1150                                                | 0.090                     | 0.700 |
| 1000                            | 13*20                   | 1450                                                | 0.080                     | 0.620 |
| 1000                            | 13*25                   | 1650                                                | 0.075                     | 0.600 |
| 1500                            | 13*25                   | 1700                                                | 0.065                     | 0.550 |
| 1500                            | 16*20                   | 1705                                                | 0.065                     | 0.550 |
| 1800                            | 16*25                   | 1780                                                | 0.060                     | 0.510 |
| 2200                            | 16*25                   | 1900                                                | 0.055                     | 0.480 |
| 2200                            | 16*31.5                 | 2205                                                | 0.052                     | 0.460 |
| 3300                            | 16*32                   | 2280                                                | 0.048                     | 0.390 |
| 3300                            | 18*25                   | 2450                                                | 0.046                     | 0.370 |
| 4700                            | 18*36                   | 2550                                                | 0.042                     | 0.350 |
| 定格电压 Rated voltage 50V 1H       |                         |                                                     |                           |       |
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ DxL (mm) | 定格电流 Rated ripple current<br>m A r.m.s./105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                     | 20℃                       | -10℃  |
| 4.7                             | 5*11                    | 65                                                  | 3.500                     | 7.600 |
| 6.8                             | 5*11                    | 75                                                  | 3.300                     | 6.800 |
| 10                              | 5*11                    | 95                                                  | 3.100                     | 6.200 |
| 22                              | 5*11                    | 115                                                 | 2.800                     | 5.900 |
| 33                              | 5*11                    | 150                                                 | 2.500                     | 3.600 |
| 47                              | 6.3*11                  | 190                                                 | 2.300                     | 3.300 |
| 68                              | 6.3*11                  | 250                                                 | 2.000                     | 2.800 |
| 100                             | 8*12                    | 400                                                 | 0.720                     | 2.200 |
| 220                             | 10*12.5                 | 600                                                 | 0.450                     | 1.600 |
| 330                             | 10*16                   | 850                                                 | 0.350                     | 0.700 |
| 470                             | 10*16                   | 1050                                                | 0.250                     | 0.700 |
| 560                             | 10*20                   | 1150                                                | 0.200                     | 0.620 |
| 680                             | 13*20                   | 1350                                                | 0.150                     | 0.600 |
| 1000                            | 13*25                   | 1850                                                | 0.090                     | 0.550 |
| 1000                            | 16*20                   | 1900                                                | 0.090                     | 0.550 |
| 2200                            | 16*32                   | 2350                                                | 0.048                     | 0.510 |
| 2200                            | 18*25                   | 2350                                                | 0.048                     | 0.480 |
| 3300                            | 18*36                   | 2650                                                | 0.042                     | 0.460 |
| 4700                            | 18*42                   | 2900                                                | 0.038                     | 0.390 |

SHG Series

标准品一览表/STANDARD SIZE

| 定格电压 Rated voltage 63V 1J       |                         |                                                    |                           |       |
|---------------------------------|-------------------------|----------------------------------------------------|---------------------------|-------|
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s/105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                    | 20℃                       | -10℃  |
| 10                              | 5*11                    | 98                                                 | 3.300                     | 5.900 |
| 22                              | 5*11                    | 120                                                | 2.500                     | 3.600 |
| 33                              | 6.3*11                  | 155                                                | 2.300                     | 3.300 |
| 47                              | 6.3*11                  | 195                                                | 2.000                     | 2.800 |
| 68                              | 8*12                    | 265                                                | 0.720                     | 2.200 |
| 100                             | 8*12                    | 330                                                | 0.450                     | 1.600 |
| 220                             | 10*16                   | 520                                                | 0.350                     | 0.700 |
| 330                             | 10*20                   | 660                                                | 0.250                     | 0.700 |
| 470                             | 13*20                   | 760                                                | 0.200                     | 0.620 |
| 560                             | 13*25                   | 900                                                | 0.150                     | 0.600 |
| 680                             | 16*20                   | 1050                                               | 0.095                     | 0.510 |
| 1000                            | 16*25                   | 2000                                               | 0.075                     | 0.480 |
| 2200                            | 18*36                   | 2550                                               | 0.045                     | 0.460 |
| 定格电压 Rated voltage 80V 1K       |                         |                                                    |                           |       |
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s/105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                    | 20℃                       | -10℃  |
| 100                             | 8*15                    | 390                                                | 0.55                      | 2.800 |
| 150                             | 8*15                    | 550                                                | 0.38                      | 2.200 |
| 180                             | 10*16                   | 640                                                | 0.33                      | 1.600 |
| 220                             | 10*16                   | 710                                                | 0.25                      | 0.700 |
| 220                             | 13*16                   | 760                                                | 0.22                      | 0.700 |
| 270                             | 10*20                   | 900                                                | 0.2                       | 0.620 |
| 330                             | 13*20                   | 980                                                | 0.17                      | 0.600 |
| 470                             | 16*21                   | 1010                                               | 0.11                      | 0.510 |
| 560                             | 13*25                   | 1300                                               | 0.09                      | 0.480 |
| 680                             | 16*25                   | 1550                                               | 0.075                     | 0.460 |
| 1000                            | 16*35                   | 1900                                               | 0.06                      | 0.44  |
| 定格电压 Rated voltage 100V 2A      |                         |                                                    |                           |       |
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s/105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                    | 20℃                       | -10℃  |
| 2.2                             | 5*11                    | 45                                                 | 3.500                     | 7.600 |
| 3.3                             | 5*11                    | 65                                                 | 3.500                     | 6.800 |
| 4.7                             | 5*11                    | 80                                                 | 3.500                     | 6.200 |
| 6.8                             | 5*11                    | 80                                                 | 3.000                     | 5.900 |
| 10                              | 5*11                    | 105                                                | 3.000                     | 3.600 |
| 22                              | 6.3*11                  | 125                                                | 2.700                     | 3.300 |
| 33                              | 8*12                    | 160                                                | 0.650                     | 2.800 |
| 47                              | 8*12                    | 210                                                | 0.580                     | 2.200 |
| 68                              | 8*12                    | 270                                                | 0.550                     | 1.600 |
| 100                             | 10*12.5                 | 400                                                | 0.500                     | 0.700 |
| 100                             | 10*16                   | 420                                                | 0.420                     | 0.700 |
| 220                             | 13*20                   | 960                                                | 0.330                     | 0.620 |
| 330                             | 13*25                   | 1350                                               | 0.210                     | 0.600 |
| 330                             | 16*25                   | 1450                                               | 0.096                     | 0.550 |
| 470                             | 13*25                   | 1600                                               | 0.083                     | 0.550 |
| 470                             | 16*25                   | 1850                                               | 0.075                     | 0.510 |
| 1000                            | 18*35                   | 2200                                               | 0.065                     | 0.500 |
| 1000                            | 18*41                   | 2800                                               | 0.055                     | 0.480 |

SHG Series

标准品一览表/STANDARD SIZE

| 定格电压 Rated voltage 160V 2C      |                         |                                                    |                           |        |
|---------------------------------|-------------------------|----------------------------------------------------|---------------------------|--------|
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s/105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |        |
|                                 |                         |                                                    | 20℃                       | -10℃   |
| 10                              | 6.3*11                  | 110                                                | 5.500                     | 13.800 |
| 22                              | 8*12                    | 190                                                | 3.000                     | 7.600  |
| 33                              | 8*15                    | 230                                                | 2.800                     | 6.800  |
| 33                              | 10*12.5                 | 260                                                | 2.800                     | 6.200  |
| 39                              | 10*14                   | 310                                                | 2.500                     | 5.900  |
| 47                              | 8*20                    | 390                                                | 2.000                     | 5.300  |
| 47                              | 10*15                   | 410                                                | 1.700                     | 5.100  |
| 47                              | 10*20                   | 430                                                | 1.600                     | 4.800  |
| 68                              | 8*25                    | 600                                                | 1.300                     | 3.900  |
| 68                              | 10*20                   | 620                                                | 1.300                     | 3.900  |
| 68                              | 10*25                   | 660                                                | 1.300                     | 3.900  |
| 68                              | 13*14                   | 660                                                | 1.300                     | 3.900  |
| 82                              | 10*20                   | 830                                                | 1.000                     | 3.600  |
| 82                              | 13*20                   | 830                                                | 0.850                     | 3.100  |
| 100                             | 13*17                   | 900                                                | 0.650                     | 3.000  |
| 100                             | 13*20                   | 930                                                | 0.650                     | 2.900  |
| 100                             | 13*25                   | 960                                                | 0.580                     | 2.900  |
| 150                             | 13*25                   | 1300                                               | 0.550                     | 2.900  |
| 150                             | 16*25                   | 1380                                               | 0.550                     | 2.900  |
| 180                             | 13*32                   | 1550                                               | 0.500                     | 0.800  |
| 220                             | 16*25                   | 1650                                               | 0.450                     | 2.700  |
| 220                             | 18*25                   | 1800                                               | 0.450                     | 2.700  |
| 330                             | 16*32                   | 2050                                               | 0.410                     | 2.600  |
| 330                             | 18*25                   | 2100                                               | 0.410                     | 2.600  |
| 470                             | 18*35                   | 2350                                               | 0.380                     | 2.350  |
| 470                             | 18*40                   | 2350                                               | 0.350                     | 2.350  |
| 560                             | 18*40                   | 2550                                               | 0.350                     | 2.350  |
| 680                             | 18*46                   | 2650                                               | 0.350                     | 2.350  |
| 定格电压 Rated voltage 200V 2D      |                         |                                                    |                           |        |
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s/105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |        |
|                                 |                         |                                                    | 20℃                       | -10℃   |
| 4.7                             | 6.3*11                  | 80                                                 | 5.500                     | 13.800 |
| 10                              | 6.3*14                  | 160                                                | 4.200                     | 8.500  |
| 10                              | 8*12                    | 180                                                | 4.000                     | 8.000  |
| 15                              | 8*15                    | 240                                                | 3.800                     | 7.200  |
| 15                              | 10*12.5                 | 260                                                | 3.500                     | 7.000  |
| 22                              | 10*12.5                 | 300                                                | 3.000                     | 6.900  |
| 22                              | 10*16                   | 340                                                | 2.800                     | 6.700  |
| 33                              | 8*16                    | 340                                                | 2.600                     | 6.500  |
| 33                              | 10*15.5                 | 360                                                | 2.500                     | 6.300  |
| 33                              | 10*16                   | 360                                                | 2.300                     | 6.100  |
| 33                              | 10*20                   | 440                                                | 2.200                     | 5.800  |
| 47                              | 10*20                   | 480                                                | 1.800                     | 5.500  |
| 47                              | 13*17                   | 500                                                | 1.600                     | 5.300  |
| 68                              | 10*25                   | 650                                                | 1.200                     | 5.100  |
| 68                              | 13*20                   | 750                                                | 1.200                     | 5.100  |
| 100                             | 10*50                   | 980                                                | 1.100                     | 4.900  |
| 100                             | 13*25                   | 1050                                               | 0.750                     | 3.600  |
| 100                             | 16*20                   | 1100                                               | 0.650                     | 3.500  |
| 100                             | 16*25                   | 1250                                               | 0.650                     | 3.300  |
| 120                             | 16*25                   | 1300                                               | 0.450                     | 2.900  |
| 150                             | 16*25                   | 1450                                               | 0.450                     | 2.900  |
| 180                             | 18*25                   | 1700                                               | 0.400                     | 2.700  |
| 220                             | 18*25                   | 1850                                               | 0.380                     | 2.600  |
| 330                             | 18*32                   | 2100                                               | 0.350                     | 2.200  |
| 330                             | 18*36                   | 2250                                               | 0.350                     | 2.200  |
| 470                             | 18*40                   | 2400                                               | 0.320                     | 2.000  |

SHG Series

标准品一览表/STANDARD SIZE

| 定格电压 Rated voltage 250V 2E      |                         |                                                     |                           |       |
|---------------------------------|-------------------------|-----------------------------------------------------|---------------------------|-------|
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s./105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                     | 20℃                       | -10℃  |
| 2.2                             | 6.3*11                  | 65                                                  | 7.50                      | 16.00 |
| 3.3                             | 6.3*11                  | 70                                                  | 7.30                      | 15.50 |
| 4.7                             | 6.3*11                  | 90                                                  | 6.20                      | 13.00 |
| 4.7                             | 8*12                    | 110                                                 | 6.00                      | 12.80 |
| 6.8                             | 8*12                    | 160                                                 | 4.50                      | 10.60 |
| 10                              | 8*12                    | 180                                                 | 4.00                      | 8.90  |
| 10                              | 10*16                   | 240                                                 | 3.60                      | 7.60  |
| 12                              | 8*12                    | 270                                                 | 3.40                      | 7.40  |
| 15                              | 8*15                    | 300                                                 | 3.20                      | 7.20  |
| 15                              | 10*13                   | 320                                                 | 3.00                      | 7.00  |
| 15                              | 10*17                   | 340                                                 | 2.80                      | 6.80  |
| 22                              | 8*20                    | 340                                                 | 5.50                      | 14.50 |
| 22                              | 10*16                   | 360                                                 | 2.40                      | 6.40  |
| 22                              | 10*20                   | 390                                                 | 2.20                      | 6.00  |
| 33                              | 10*20                   | 420                                                 | 1.80                      | 4.30  |
| 33                              | 13*18                   | 420                                                 | 1.60                      | 4.20  |
| 47                              | 10*25                   | 700                                                 | 1.45                      | 4.00  |
| 47                              | 13*20                   | 750                                                 | 1.35                      | 3.70  |
| 47                              | 13*16                   | 750                                                 | 2.00                      | 5.80  |
| 47                              | 13*20                   | 800                                                 | 1.10                      | 3.00  |
| 100                             | 10*50                   | 1490                                                | 0.65                      | 2.50  |
| 100                             | 13*32                   | 1490                                                | 0.60                      | 2.30  |
| 100                             | 13*50                   | 1550                                                | 0.60                      | 2.30  |
| 100                             | 16*20                   | 1490                                                | 0.55                      | 2.10  |
| 100                             | 16*25                   | 1650                                                | 0.55                      | 2.10  |



SHG Series

标准品一览表/STANDARD SIZE

| 定格电压 Rated voltage 400V 2G      |                         |                                                    |                           |       |
|---------------------------------|-------------------------|----------------------------------------------------|---------------------------|-------|
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s/105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                    | 20℃                       | -10℃  |
| 2.2                             | 6.3*9                   | 75                                                 | 14.00                     | 38.00 |
| 2.2                             | 6.3*11                  | 90                                                 | 14.00                     | 36.00 |
| 2.2                             | 8*12                    | 100                                                | 14.00                     | 34.00 |
| 3.3                             | 6.3*11                  | 110                                                | 11.00                     | 33.00 |
| 3.3                             | 8*9                     | 120                                                | 11.00                     | 31.00 |
| 3.3                             | 8*12                    | 130                                                | 6.00                      | 29.00 |
| 4.7                             | 6.3*14                  | 135                                                | 6.00                      | 29.00 |
| 4.7                             | 8*10                    | 135                                                | 6.00                      | 29.00 |
| 4.7                             | 8*12                    | 150                                                | 5.80                      | 28.00 |
| 4.7                             | 10*12.5                 | 165                                                | 5.50                      | 26.00 |
| 6.8                             | 8*12                    | 165                                                | 5.50                      | 26.00 |
| 6.8                             | 8*15                    | 180                                                | 5.20                      | 22.00 |
| 6.8                             | 10*12.5                 | 200                                                | 5.20                      | 22.00 |
| 8.2                             | 8*13                    | 220                                                | 4.50                      | 20.50 |
| 10                              | 8*13                    | 235                                                | 3.80                      | 17.60 |
| 10                              | 10*13                   | 245                                                | 3.20                      | 15.80 |
| 10                              | 10*16                   | 280                                                | 3.00                      | 15.20 |
| 10                              | 10*20                   | 300                                                | 2.80                      | 13.80 |
| 15                              | 8*20                    | 300                                                | 3.50                      | 15.60 |
| 15                              | 10*16                   | 330                                                | 2.50                      | 11.70 |
| 15                              | 10*20                   | 350                                                | 2.30                      | 10.90 |
| 22                              | 10*20                   | 420                                                | 2.10                      | 10.40 |
| 22                              | 13*16                   | 440                                                | 1.90                      | 9.80  |
| 22                              | 13*21                   | 550                                                | 1.80                      | 9.60  |
| 33                              | 13*16                   | 590                                                | 1.75                      | 8.40  |
| 33                              | 13*21                   | 620                                                | 1.72                      | 8.30  |
| 33                              | 13*25                   | 760                                                | 1.70                      | 8.10  |
| 33                              | 16*20                   | 780                                                | 1.60                      | 7.80  |
| 47                              | 13*26                   | 780                                                | 1.60                      | 7.80  |
| 47                              | 16*21                   | 900                                                | 1.50                      | 7.50  |
| 47                              | 16*25                   | 930                                                | 1.40                      | 7.00  |
| 47                              | 18*20                   | 965                                                | 1.40                      | 7.00  |
| 56                              | 16*25                   | 1050                                               | 1.30                      | 5.60  |
| 56                              | 18*20                   | 1150                                               | 1.20                      | 5.10  |
| 68                              | 16*25                   | 1250                                               | 1.10                      | 4.90  |
| 68                              | 16*31.5                 | 1350                                               | 1.05                      | 4.80  |
| 68                              | 18*23                   | 1350                                               | 1.10                      | 4.90  |
| 68                              | 18*25                   | 1400                                               | 1.05                      | 4.80  |
| 82                              | 16*32                   | 1480                                               | 0.96                      | 4.40  |
| 82                              | 18*26                   | 1500                                               | 0.96                      | 4.40  |
| 82                              | 18*30                   | 1650                                               | 0.87                      | 3.80  |
| 100                             | 16*32                   | 1500                                               | 0.87                      | 3.80  |
| 100                             | 18*26                   | 1500                                               | 0.87                      | 3.80  |
| 100                             | 18*30                   | 1700                                               | 0.80                      | 3.10  |
| 100                             | 18*32                   | 1790                                               | 0.80                      | 3.10  |
| 120                             | 18*32                   | 1820                                               | 0.75                      | 2.90  |
| 150                             | 18*36                   | 1850                                               | 0.70                      | 2.70  |
| 180                             | 18*40                   | 1950                                               | 0.67                      | 2.50  |

SHG Series

标准品一览表/STANDARD SIZE

| 定格电压 Rated voltage 450V 2W      |                         |                                                     |                           |       |
|---------------------------------|-------------------------|-----------------------------------------------------|---------------------------|-------|
| 定格静容量(μ F)<br>Rated Capacitance | 外形尺寸 Size<br>Φ D×L (mm) | 定格电流 Rated ripple current<br>m A r.m.s./105℃,100KHz | 阻抗值 Impedance /100Khz/(Ω) |       |
|                                 |                         |                                                     | 20℃                       | -10℃  |
| 2.2                             | 6.3*11                  | 95                                                  | 12.00                     | 36.00 |
| 2.2                             | 8*12                    | 110                                                 | 12.00                     | 32.00 |
| 3.3                             | 8*12                    | 140                                                 | 10.50                     | 29.00 |
| 4.7                             | 8*12                    | 165                                                 | 5.80                      | 28.00 |
| 4.7                             | 8*15                    | 170                                                 | 5.50                      | 26.00 |
| 4.7                             | 10*13                   | 185                                                 | 5.50                      | 26.00 |
| 6.8                             | 8*15                    | 200                                                 | 5.50                      | 26.00 |
| 6.8                             | 10*13                   | 220                                                 | 5.20                      | 22.00 |
| 8.2                             | 10*13                   | 240                                                 | 4.00                      | 20.00 |
| 10                              | 10*13                   | 260                                                 | 3.00                      | 14.50 |
| 10                              | 10*16                   | 275                                                 | 2.70                      | 13.00 |
| 10                              | 10*20                   | 290                                                 | 2.50                      | 11.80 |
| 10                              | 13*21                   | 320                                                 | 2.40                      | 11.00 |
| 15                              | 10*16                   | 365                                                 | 2.30                      | 9.50  |
| 15                              | 10*20                   | 380                                                 | 2.10                      | 8.70  |
| 15                              | 13*16                   | 380                                                 | 2.10                      | 8.70  |
| 22                              | 13*21                   | 560                                                 | 1.90                      | 7.50  |
| 22                              | 13*25                   | 580                                                 | 1.80                      | 7.10  |
| 22                              | 16*20                   | 600                                                 | 1.65                      | 6.40  |
| 33                              | 13*21                   | 560                                                 | 1.65                      | 6.40  |
| 33                              | 13*25                   | 785                                                 | 1.50                      | 6.20  |
| 33                              | 16*22                   | 800                                                 | 1.35                      | 5.90  |
| 33                              | 16*25                   | 820                                                 | 1.25                      | 5.60  |
| 47                              | 13*30                   | 920                                                 | 1.20                      | 5.10  |
| 47                              | 16*25                   | 945                                                 | 1.10                      | 4.80  |
| 47                              | 18*20                   | 980                                                 | 1.05                      | 4.40  |
| 56                              | 16*25                   | 1150                                                | 0.95                      | 4.10  |
| 56                              | 18*20                   | 1280                                                | 0.86                      | 3.90  |
| 68                              | 13*50                   | 1350                                                | 0.80                      | 3.70  |
| 68                              | 16*31.5                 | 1500                                                | 0.70                      | 3.20  |
| 68                              | 18*22                   | 1500                                                | 0.64                      | 3.00  |
| 68                              | 18*25                   | 1650                                                | 0.60                      | 2.90  |
| 82                              | 18*30                   | 1750                                                | 0.55                      | 2.70  |
| 82                              | 18*32                   | 1850                                                | 0.50                      | 2.60  |
| 100                             | 18*32                   | 1900                                                | 0.45                      | 2.50  |
| 100                             | 18*36                   | 1980                                                | 0.40                      | 2.20  |
| 100                             | 18*40                   | 2100                                                | 0.37                      | 2.10  |
| 120                             | 18*36                   | 2350                                                | 0.37                      | 2.10  |
| 150                             | 18*40                   | 2450                                                | 0.35                      | 2.00  |
| 150                             | 25*30                   | 2450                                                | 0.33                      | 1.80  |
| 180                             | 18*45                   | 2550                                                | 0.30                      | 1.60  |

Note: All design and specification are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact KNSCHA immediately for technical assistance before purchase.  
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