

**规格承认书**

Specification for approval

客户名称:

深圳市立创商城电子商务有限公司

(Customer Name)

产品名称:

电解电容

(Product Name)

Aluminum Electrolytic Capacitor

客户料号:

(Customer part number)

科尼盛料号:

DHF400M336L200S1AA

(KNSCHA number)

型号规格:

400V/33UF 13\*20mm SHF

(Specifications)

日期:

2025.2.26

DATE

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

|                            |                |                 |
|----------------------------|----------------|-----------------|
| 客户承认栏<br>CUSTOMER APPROVED |                |                 |
| 核 准<br>APPROVED            | 确 认<br>CHECKED | 经 办<br>DESIGNED |
|                            |                |                 |

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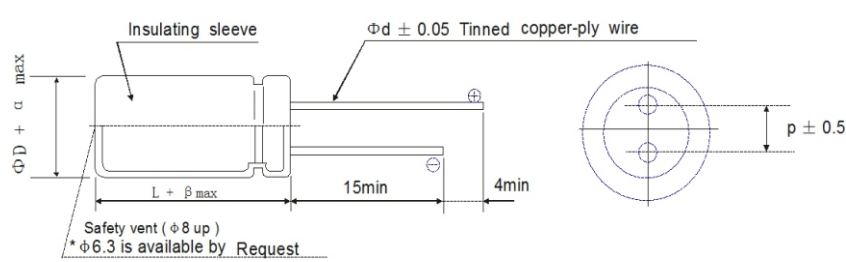
## 特征/FEATURES

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| 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<br>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 after3<br>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                                                                                                                                                                                                                                                                                                    |                                            |                                                 | Ratd 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                                                                                                                                                                                                                                                                                                      | 0.2                                        | 0.18                                            | 0.14             | 0.12        | 0.1                                                                                                   | 0.09                   | 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%                      |                  |             |                                                                                                       | 定格电压V<br>Rated voltage |             | 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 |                  |             |                                                                                                       | 6.3V-100V              |             | 10000                    |  |
|                                                                  |                                                                                                                                                                                                                                                                                                                    |                                            |                                                 |                  |             |                                                                                                       | 160V-250V              |             | 8000                     |  |
| 漏电流<br>Leakage Current(MAX)                                      |                                                                                                                                                                                                                                                                                                                    | 规格值以下<br>Not more than the specified value |                                                 |                  |             | 400V-450V                                                                                             |                        | 5000        |                          |  |
| 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                                              | 10               | 8           | 8                                                                                                     | 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.<br>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 |                                            |                                                 |                  |             |                                                                                                       |                        |             |                          |  |

SHF Series

寸法图DIMENSIONS



| $\Phi D - \Phi d$ | P    | $\beta$ | $\alpha$ |
|-------------------|------|---------|----------|
| 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) Frequency 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     | 0.50 | 0.65 | 0.85 | 1.00 |                             |      |      |      |      |
| 68 ~ 680    | 0.75 | 0.90 | 0.95 | 1.00 | Coefficient                 | 1.65 | 1.45 | 1.30 | 1.00 |
| 1000 ~22000 | 0.85 | 0.80 | 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                    | 210                                                 | 0.750                     | 3.800 |  |
| 220                             | 6.3*11                  | 330                                                 | 0.480                     | 2.700 |  |
| 330                             | 6.3*11                  | 370                                                 | 0.480                     | 2.700 |  |
| 470                             | 6.3*11                  | 480                                                 | 0.420                     | 2.200 |  |
| 470                             | 8*12                    | 520                                                 | 0.420                     | 2.200 |  |
| 680                             | 8*12                    | 580                                                 | 0.310                     | 1.600 |  |
| 1000                            | 8*12                    | 640                                                 | 0.280                     | 1.550 |  |
| 1000                            | 10*12.5                 | 710                                                 | 0.180                     | 1.100 |  |
| 2200                            | 10*20                   | 1450                                                | 0.120                     | 0.800 |  |
| 3300                            | 13*21                   | 1550                                                | 0.075                     | 0.680 |  |
| 4700                            | 13*25                   | 2100                                                | 0.058                     | 0.660 |  |
| 6800                            | 13*25                   | 2300                                                | 0.055                     | 0.620 |  |
| 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                    | 220                                                 | 0.700                     | 3.600 |  |
| 220                             | 6.3*11                  | 350                                                 | 0.440                     | 2.700 |  |
| 330                             | 8*12                    | 400                                                 | 0.400                     | 2.500 |  |
| 470                             | 8*12                    | 440                                                 | 0.320                     | 2.200 |  |
| 680                             | 10*12.5                 | 590                                                 | 0.220                     | 2.200 |  |
| 1000                            | 8*14                    | 800                                                 | 0.160                     | 1.600 |  |
| 1500                            | 10*16                   | 940                                                 | 0.120                     | 1.550 |  |
| 2200                            | 10*20                   | 1500                                                | 0.080                     | 1.100 |  |
| 3300                            | 13*21                   | 1700                                                | 0.068                     | 0.800 |  |
| 4700                            | 13*25                   | 2300                                                | 0.040                     | 0.680 |  |

SHF 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℃  |
| 470                             | 8*12                    | 560                                                | 0.650                     | 2.800 |
| 560                             | 8*15                    | 720                                                | 0.350                     | 1.100 |
| 680                             | 8*15                    | 850                                                | 0.200                     | 0.800 |
| 1000                            | 10*16                   | 1300                                               | 0.120                     | 0.680 |
| 1500                            | 10*20                   | 1550                                               | 0.100                     | 0.660 |
| 1800                            | 13*16                   | 1700                                               | 0.080                     | 0.610 |
| 2200                            | 10*25                   | 1850                                               | 0.072                     | 0.500 |
| 2200                            | 13*20                   | 1850                                               | 0.072                     | 0.500 |
| 3300                            | 13*25                   | 1980                                               | 0.068                     | 0.380 |
| 3300                            | 16*20                   | 1980                                               | 0.065                     | 0.360 |
| 3300                            | 13*35                   | 3750                                               | 0.013                     | 0.360 |
| 4700                            | 16*25                   | 2400                                               | 0.058                     | 0.340 |
| 5600                            | 16*31                   | 2550                                               | 0.050                     | 0.320 |
| 6800                            | 16*35                   | 2700                                               | 0.043                     | 0.280 |
| 10000                           | 18*35                   | 2980                                               | 0.040                     | 0.260 |
| 10000                           | 18*40                   | 3200                                               | 0.036                     | 0.220 |
| 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                    | 90                                                 | 0.950                     | 4.100 |
| 22                              | 5*11                    | 110                                                | 0.900                     | 3.900 |
| 33                              | 5*11                    | 145                                                | 0.850                     | 3.300 |
| 47                              | 5*11                    | 170                                                | 0.700                     | 2.900 |
| 68                              | 5*11                    | 190                                                | 0.600                     | 2.700 |
| 100                             | 6.3*11                  | 350                                                | 0.550                     | 2.500 |
| 150                             | 6.3*11                  | 580                                                | 0.095                     | 0.280 |
| 220                             | 8*12                    | 440                                                | 0.500                     | 2.200 |
| 330                             | 8*12                    | 510                                                | 0.400                     | 2.200 |
| 470                             | 8*12                    | 510                                                | 0.360                     | 1.600 |
| 470                             | 10*12.5                 | 595                                                | 0.320                     | 1.550 |
| 470                             | 10*16                   | 1150                                               | 0.055                     | 1.500 |
| 470                             | 10*16                   | 630                                                | 0.300                     | 1.500 |
| 470                             | 10*20                   | 1075                                               | 0.300                     | 1.500 |
| 560                             | 10*12.5                 | 720                                                | 0.200                     | 1.100 |
| 680                             | 10*16                   | 1450                                               | 0.170                     | 0.800 |
| 680                             | 10*16                   | 930                                                | 0.170                     | 0.800 |
| 1000                            | 10*16                   | 1450                                               | 0.090                     | 0.680 |
| 1000                            | 10*20                   | 1550                                               | 0.085                     | 0.660 |
| 1500                            | 13*20                   | 1700                                               | 0.080                     | 0.610 |
| 1800                            | 13*20                   | 1950                                               | 0.055                     | 0.500 |
| 2200                            | 13*21                   | 2100                                               | 0.050                     | 0.380 |
| 2200                            | 13*25                   | 2300                                               | 0.048                     | 0.360 |
| 3300                            | 16*22                   | 2450                                               | 0.043                     | 0.340 |
| 3300                            | 16*25                   | 2580                                               | 0.042                     | 0.320 |
| 4700                            | 16*32                   | 2670                                               | 0.042                     | 0.280 |
| 5600                            | 18*32                   | 2900                                               | 0.039                     | 0.260 |
| 6800                            | 18*35                   | 3200                                               | 0.033                     | 0.220 |
| 10000                           | 18*42                   | 3450                                               | 0.033                     | 0.200 |

SHF Series

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 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                    | 105                                                 | 3.000                     | 8.300 |
| 22                              | 5*11                    | 115                                                 | 2.800                     | 7.600 |
| 33                              | 5*11                    | 158                                                 | 2.600                     | 6.800 |
| 47                              | 5*11                    | 180                                                 | 2.200                     | 6.200 |
| 68                              | 6.3*11                  | 220                                                 | 2.100                     | 5.900 |
| 100                             | 6.3*11                  | 260                                                 | 1.600                     | 4.800 |
| 100                             | 8*12                    | 450                                                 | 0.700                     | 3.600 |
| 220                             | 8*12                    | 510                                                 | 0.550                     | 3.300 |
| 330                             | 10*12.5                 | 880                                                 | 0.076                     | 0.300 |
| 330                             | 10*12.5                 | 720                                                 | 0.350                     | 2.800 |
| 470                             | 10*16                   | 1050                                                | 0.200                     | 2.200 |
| 470                             | 10*20                   | 1200                                                | 0.090                     | 1.600 |
| 470                             | 10*20                   | 2150                                                | 0.078                     | 2.100 |
| 560                             | 10*20                   | 1300                                                | 0.080                     | 0.700 |
| 680                             | 10*20                   | 1450                                                | 0.080                     | 0.700 |
| 1000                            | 10*20                   | 1470                                                | 0.075                     | 0.630 |
| 1000                            | 13*20                   | 2510                                                | 0.017                     | 0.045 |
| 1000                            | 13*20                   | 2950                                                | 0.065                     | 0.450 |
| 1200                            | 13*30                   | 2700                                                | 0.027                     | 0.620 |
| 1000                            | 13*25                   | 1780                                                | 0.065                     | 0.600 |
| 1500                            | 13*25                   | 1850                                                | 0.055                     | 0.550 |
| 1500                            | 16*20                   | 1900                                                | 0.055                     | 0.550 |
| 1800                            | 16*25                   | 1980                                                | 0.055                     | 0.510 |
| 2200                            | 13*32                   | 3150                                                | 0.017                     | 0.260 |
| 2200                            | 16*25                   | 2100                                                | 0.050                     | 0.480 |
| 2200                            | 16*31.5                 | 2350                                                | 0.048                     | 0.460 |
| 2200                            | 18*20                   | 2350                                                | 0.046                     | 0.410 |
| 3300                            | 16*32                   | 2400                                                | 0.046                     | 0.390 |
| 3300                            | 18*25                   | 2580                                                | 0.042                     | 0.370 |
| 3900                            | 18*40                   | 3865                                                | 0.016                     | 0.370 |
| 4700                            | 18*36                   | 2700                                                | 0.040                     | 0.350 |

SHF Series

标准品一览表/STANDARD SIZE

| 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 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                             | 5*11                    | 85                                                  | 3.000                     | 8.300 |
| 6.8                             | 5*11                    | 95                                                  | 2.800                     | 7.600 |
| 10                              | 5*11                    | 115                                                 | 2.600                     | 6.800 |
| 22                              | 5*11                    | 125                                                 | 2.200                     | 6.200 |
| 33                              | 5*11                    | 165                                                 | 2.100                     | 5.900 |
| 47                              | 6.3*11                  | 220                                                 | 1.900                     | 4.800 |
| 68                              | 6.3*11                  | 270                                                 | 1.350                     | 4.200 |
| 100                             | 6.3*14                  | 270                                                 | 1.350                     | 4.200 |
| 100                             | 8*12                    | 460                                                 | 1.100                     | 4.200 |
| 150                             | 8*12                    | 550                                                 | 0.160                     | 3.300 |
| 220                             | 10*12.5                 | 640                                                 | 1.000                     | 4.000 |
| 220                             | 10*16                   | 640                                                 | 1.000                     | 4.000 |
| 220                             | 10*16                   | 1180                                                | 0.260                     | 3.900 |
| 330                             | 10*16                   | 1000                                                | 0.095                     | 3.700 |
| 390                             | 10*20                   | 1000                                                | 0.055                     | 3.700 |
| 470                             | 10*16                   | 1180                                                | 0.088                     | 3.500 |
| 560                             | 10*20                   | 1300                                                | 0.081                     | 3.300 |
| 680                             | 13*20                   | 1480                                                | 0.079                     | 3.100 |
| 1000                            | 13*16                   | 1650                                                | 0.075                     | 2.800 |
| 1000                            | 13*25                   | 2100                                                | 0.075                     | 2.800 |
| 1000                            | 16*20                   | 2300                                                | 0.068                     | 2.600 |
| 2200                            | 16*32                   | 2580                                                | 0.066                     | 2.400 |
| 2200                            | 18*25                   | 2690                                                | 0.062                     | 2.350 |
| 2700                            | 16*35.5                 | 3610                                                | 0.035                     | 0.160 |
| 3300                            | 18*36                   | 2900                                                | 0.058                     | 2.200 |
| 4700                            | 18*42                   | 3100                                                | 0.052                     | 1.900 |
| 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                    | 110                                                 | 3.100                     | 8.300 |
| 22                              | 5*11                    | 130                                                 | 2.200                     | 7.600 |
| 33                              | 6.3*11                  | 170                                                 | 1.900                     | 6.800 |
| 47                              | 6.3*11                  | 220                                                 | 1.700                     | 6.200 |
| 68                              | 8*12                    | 290                                                 | 1.300                     | 5.900 |
| 100                             | 8*12                    | 490                                                 | 1.100                     | 4.800 |
| 220                             | 10*16                   | 660                                                 | 0.090                     | 4.200 |
| 220                             | 10*20                   | 720                                                 | 0.080                     | 4.200 |
| 330                             | 10*20                   | 1100                                                | 0.080                     | 4.200 |
| 470                             | 13*16                   | 1250                                                | 0.075                     | 4.000 |
| 470                             | 13*20                   | 1250                                                | 0.075                     | 4.000 |
| 560                             | 13*25                   | 1480                                                | 0.070                     | 3.700 |
| 680                             | 16*20                   | 1800                                                | 0.065                     | 3.500 |
| 1000                            | 16*25                   | 2450                                                | 0.062                     | 3.300 |
| 1500                            | 18*31.5                 | 3350                                                | 0.035                     | 1.080 |
| 2200                            | 18*36                   | 2800                                                | 0.058                     | 2.900 |
| 3300                            | 18*40                   | 2950                                                | 0.045                     | 2.300 |

SHF Series

标准品一览表/STANDARD SIZE

| 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                    | 510                                                 | 0.420                     | 4.800 |
| 120                             | 8*15                    | 890                                                 | 0.200                     | 4.200 |
| 150                             | 8*15                    | 660                                                 | 0.400                     | 4.200 |
| 150                             | 10*12.5                 | 985                                                 | 0.140                     | 0.320 |
| 150                             | 13*16                   | 800                                                 | 0.120                     | 0.320 |
| 180                             | 10*16                   | 690                                                 | 0.290                     | 4.200 |
| 220                             | 10*16                   | 730                                                 | 0.200                     | 4.000 |
| 220                             | 13*16                   | 800                                                 | 0.170                     | 3.700 |
| 270                             | 10*20                   | 1050                                                | 0.140                     | 3.500 |
| 330                             | 13*20                   | 1250                                                | 0.110                     | 3.300 |
| 470                             | 16*21                   | 1400                                                | 0.085                     | 2.900 |
| 560                             | 13*25                   | 1580                                                | 0.070                     | 2.100 |
| 680                             | 16*25                   | 1750                                                | 0.062                     | 1.800 |
| 1000                            | 18*31.5                 | 2550                                                | 0.052                     | 1.600 |
| 1000                            | 16*35                   | 2550                                                | 0.052                     | 1.600 |
| 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                    | 65                                                  | 3.300                     | 8.300 |
| 3.3                             | 5*11                    | 75                                                  | 3.300                     | 7.600 |
| 4.7                             | 5*11                    | 95                                                  | 3.000                     | 6.800 |
| 6.8                             | 5*11                    | 110                                                 | 2.600                     | 6.200 |
| 10                              | 5*11                    | 125                                                 | 2.400                     | 5.900 |
| 22                              | 6.3*11                  | 135                                                 | 2.200                     | 4.800 |
| 33                              | 8*12                    | 190                                                 | 0.550                     | 4.200 |
| 47                              | 8*12                    | 240                                                 | 0.510                     | 4.200 |
| 68                              | 8*12                    | 300                                                 | 0.480                     | 4.000 |
| 100                             | 8*16                    | 380                                                 | 0.460                     | 3.800 |
| 100                             | 10*12.5                 | 520                                                 | 0.440                     | 3.700 |
| 100                             | 10*16                   | 720                                                 | 0.400                     | 3.500 |
| 150                             | 10*20                   | 850                                                 | 0.350                     | 3.400 |
| 220                             | 13*20                   | 980                                                 | 0.310                     | 3.300 |
| 330                             | 13*25                   | 1650                                                | 0.190                     | 2.900 |
| 330                             | 16*25                   | 1650                                                | 0.085                     | 2.200 |
| 470                             | 13*25                   | 1750                                                | 0.070                     | 2.000 |
| 470                             | 16*25                   | 1900                                                | 0.068                     | 1.800 |
| 1000                            | 18*30                   | 2050                                                | 0.060                     | 1.650 |
| 1000                            | 18*36                   | 2750                                                | 0.058                     | 1.620 |
| 1000                            | 18*41                   | 3100                                                | 0.052                     | 1.650 |

SHF 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                  | 125                                                 | 4.200                     | 8.500 |
| 22                              | 8*12                    | 200                                                 | 2.800                     | 8.000 |
| 33                              | 8*15                    | 240                                                 | 2.600                     | 7.200 |
| 33                              | 10*12.5                 | 280                                                 | 2.600                     | 7.000 |
| 39                              | 10*14                   | 330                                                 | 2.400                     | 6.900 |
| 47                              | 8*20                    | 410                                                 | 1.800                     | 6.700 |
| 47                              | 10*15                   | 430                                                 | 1.600                     | 6.500 |
| 47                              | 10*20                   | 450                                                 | 1.500                     | 6.300 |
| 68                              | 8*25                    | 620                                                 | 1.200                     | 6.100 |
| 68                              | 10*20                   | 640                                                 | 1.200                     | 5.800 |
| 68                              | 10*25                   | 680                                                 | 1.200                     | 5.500 |
| 68                              | 13*14                   | 680                                                 | 1.200                     | 5.300 |
| 82                              | 10*20                   | 850                                                 | 0.900                     | 5.100 |
| 82                              | 13*20                   | 850                                                 | 0.800                     | 5.100 |
| 100                             | 13*17                   | 930                                                 | 0.600                     | 3.600 |
| 100                             | 13*20                   | 950                                                 | 0.600                     | 3.500 |
| 100                             | 13*25                   | 990                                                 | 0.550                     | 3.300 |
| 150                             | 13*25                   | 1400                                                | 0.520                     | 2.900 |
| 150                             | 16*25                   | 1550                                                | 0.500                     | 2.900 |
| 180                             | 13*32                   | 1700                                                | 0.440                     | 2.700 |
| 220                             | 16*25                   | 1800                                                | 0.410                     | 2.600 |
| 220                             | 18*25                   | 1900                                                | 0.400                     | 2.200 |
| 330                             | 16*32                   | 2150                                                | 0.390                     | 2.200 |
| 330                             | 18*25                   | 2300                                                | 0.390                     | 2.000 |
| 470                             | 18*35                   | 2450                                                | 0.370                     | 1.900 |
| 470                             | 18*40                   | 2500                                                | 0.340                     | 1.880 |
| 560                             | 18*40                   | 2650                                                | 0.320                     | 1.810 |
| 680                             | 18*46                   | 2800                                                | 0.320                     | 1.780 |

SHF Series

标准品一览表/STANDARD SIZE

| 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                  | 95                                                 | 4.500                     | 13.800 |
| 10                              | 6.3*14                  | 170                                                | 4.200                     | 8.500  |
| 10                              | 8*12                    | 200                                                | 4.000                     | 8.000  |
| 15                              | 8*15                    | 250                                                | 3.800                     | 7.200  |
| 15                              | 10*12.5                 | 270                                                | 3.500                     | 7.000  |
| 22                              | 10*12.5                 | 320                                                | 3.000                     | 6.900  |
| 22                              | 10*16                   | 350                                                | 2.800                     | 6.700  |
| 33                              | 8*16                    | 350                                                | 2.600                     | 6.500  |
| 33                              | 10*15.5                 | 380                                                | 2.500                     | 6.300  |
| 33                              | 10*16                   | 380                                                | 2.300                     | 6.100  |
| 33                              | 10*20                   | 450                                                | 2.200                     | 5.800  |
| 47                              | 10*20                   | 500                                                | 1.800                     | 5.500  |
| 47                              | 13*17                   | 520                                                | 1.600                     | 5.300  |
| 68                              | 10*25                   | 680                                                | 1.200                     | 5.100  |
| 68                              | 13*20                   | 780                                                | 1.200                     | 5.100  |
| 100                             | 13*25                   | 1250                                               | 0.750                     | 3.600  |
| 100                             | 16*20                   | 1300                                               | 0.650                     | 3.500  |
| 100                             | 16*25                   | 1450                                               | 0.650                     | 3.300  |
| 120                             | 16*25                   | 1500                                               | 0.450                     | 2.900  |
| 150                             | 16*25                   | 1650                                               | 0.450                     | 2.900  |
| 180                             | 16*25                   | 1700                                               | 0.750                     | 3.600  |
| 180                             | 18*25                   | 1850                                               | 0.400                     | 2.700  |
| 220                             | 16*30                   | 2150                                               | 0.300                     | 2.600  |
| 220                             | 18*25                   | 2150                                               | 0.300                     | 2.600  |
| 330                             | 18*32                   | 2300                                               | 0.350                     | 2.200  |
| 330                             | 18*36                   | 2500                                               | 0.350                     | 2.200  |
| 470                             | 18*40                   | 2800                                               | 0.320                     | 2.000  |
| 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                  | 80                                                 | 4.500                     | 13.800 |
| 3.3                             | 6.3*11                  | 90                                                 | 4.200                     | 8.500  |
| 4.7                             | 6.3*11                  | 100                                                | 4.000                     | 8.000  |
| 4.7                             | 8*12                    | 120                                                | 3.800                     | 7.200  |
| 6.8                             | 8*12                    | 125                                                | 3.500                     | 7.000  |
| 10                              | 8*12                    | 200                                                | 3.000                     | 6.900  |
| 10                              | 10*16                   | 260                                                | 2.800                     | 6.700  |
| 12                              | 8*12                    | 290                                                | 2.600                     | 6.500  |
| 15                              | 8*15                    | 320                                                | 2.500                     | 6.300  |
| 15                              | 10*13                   | 350                                                | 2.300                     | 6.100  |
| 15                              | 10*17                   | 370                                                | 2.200                     | 5.800  |
| 22                              | 8*20                    | 370                                                | 1.800                     | 5.500  |
| 22                              | 10*16                   | 400                                                | 1.600                     | 5.300  |
| 22                              | 10*20                   | 420                                                | 1.200                     | 5.100  |
| 33                              | 10*20                   | 440                                                | 1.200                     | 5.100  |
| 33                              | 13*18                   | 440                                                | 0.750                     | 3.600  |
| 47                              | 10*25                   | 730                                                | 0.650                     | 3.500  |
| 47                              | 13*20                   | 780                                                | 0.650                     | 3.300  |
| 47                              | 13*16                   | 780                                                | 0.450                     | 2.900  |
| 47                              | 13*20                   | 830                                                | 0.450                     | 2.900  |
| 100                             | 10*50                   | 1650                                               | 0.400                     | 2.700  |
| 100                             | 13*32                   | 1650                                               | 0.380                     | 2.600  |
| 100                             | 13*50                   | 1750                                               | 0.350                     | 2.200  |
| 100                             | 16*20                   | 1750                                               | 0.350                     | 2.200  |
| 100                             | 16*25                   | 1850                                               | 0.320                     | 2.000  |

SHF 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                   | 90                                                 | 18.00                     | 36.00 |
| 2.2                             | 6.3*11                  | 110                                                | 16.00                     | 32.00 |
| 2.2                             | 8*12                    | 120                                                | 14.00                     | 29.00 |
| 3.3                             | 6.3*11                  | 135                                                | 13.00                     | 28.00 |
| 3.3                             | 8*9                     | 135                                                | 13.00                     | 26.00 |
| 3.3                             | 8*12                    | 140                                                | 12.00                     | 26.00 |
| 4.7                             | 6.3*14                  | 150                                                | 6.00                      | 26.00 |
| 4.7                             | 8*10                    | 150                                                | 6.00                      | 22.00 |
| 4.7                             | 8*12                    | 150                                                | 5.80                      | 20.00 |
| 4.7                             | 10*12.5                 | 170                                                | 5.50                      | 14.50 |
| 6.8                             | 8*12                    | 180                                                | 5.10                      | 13.00 |
| 6.8                             | 8*15                    | 190                                                | 4.80                      | 11.80 |
| 6.8                             | 10*12.5                 | 215                                                | 4.80                      | 11.00 |
| 8.2                             | 8*13                    | 220                                                | 4.10                      | 9.50  |
| 10                              | 8*13                    | 245                                                | 3.20                      | 8.70  |
| 10                              | 10*13                   | 260                                                | 3.20                      | 8.70  |
| 10                              | 10*16                   | 295                                                | 2.80                      | 7.50  |
| 10                              | 10*20                   | 320                                                | 2.30                      | 7.10  |
| 15                              | 8*16                    | 245                                                | 2.30                      | 7.10  |
| 15                              | 8*18                    | 340                                                | 2.10                      | 6.40  |
| 15                              | 8*20                    | 340                                                | 2.10                      | 6.40  |
| 15                              | 10*13                   | 340                                                | 2.10                      | 6.40  |
| 15                              | 10*16                   | 360                                                | 1.90                      | 6.20  |
| 15                              | 10*20                   | 450                                                | 1.75                      | 5.90  |
| 18                              | 8*25                    | 450                                                | 1.75                      | 5.90  |
| 22                              | 10*18                   | 510                                                | 1.60                      | 5.60  |
| 22                              | 10*20                   | 550                                                | 1.55                      | 5.10  |
| 22                              | 13*14                   | 620                                                | 1.50                      | 4.90  |
| 22                              | 13*16                   | 620                                                | 1.50                      | 4.90  |
| 22                              | 13*21                   | 690                                                | 1.45                      | 4.90  |
| 27                              | 10*18                   | 710                                                | 1.40                      | 4.80  |
| 33                              | 10*19                   | 780                                                | 1.38                      | 4.90  |
| 33                              | 13*16                   | 810                                                | 1.33                      | 4.80  |
| 33                              | 13*21                   | 830                                                | 1.33                      | 4.60  |
| 33                              | 13*25                   | 855                                                | 1.30                      | 4.50  |
| 33                              | 16*20                   | 890                                                | 1.25                      | 4.40  |
| 39                              | 10*25                   | 900                                                | 1.22                      | 4.38  |
| 39                              | 10*30                   | 900                                                | 1.22                      | 4.38  |
| 47                              | 13*17                   | 910                                                | 1.20                      | 4.35  |
| 47                              | 13*26                   | 930                                                | 1.15                      | 4.30  |
| 47                              | 13*30                   | 930                                                | 1.15                      | 4.30  |
| 47                              | 16*21                   | 950                                                | 1.12                      | 4.30  |
| 47                              | 16*25                   | 970                                                | 1.10                      | 4.30  |
| 47                              | 18*20                   | 990                                                | 1.05                      | 4.10  |
| 56                              | 13*30                   | 1050                                               | 1.00                      | 3.90  |
| 56                              | 16*25                   | 1150                                               | 1.00                      | 3.90  |
| 56                              | 18*20                   | 1300                                               | 0.95                      | 3.90  |
| 68                              | 13*30                   | 1450                                               | 0.90                      | 3.90  |
| 68                              | 16*25                   | 1580                                               | 0.85                      | 3.70  |
| 68                              | 16*31.5                 | 1650                                               | 0.80                      | 3.20  |
| 68                              | 18*23                   | 1700                                               | 0.75                      | 3.00  |
| 68                              | 18*25                   | 1780                                               | 0.70                      | 2.90  |
| 76                              | 13*40                   | 1050                                               | 1.25                      | 2.70  |
| 82                              | 16*25                   | 1810                                               | 0.65                      | 2.70  |
| 82                              | 16*32                   | 1810                                               | 0.60                      | 2.60  |
| 82                              | 18*26                   | 1810                                               | 0.52                      | 2.50  |
| 82                              | 18*30                   | 1850                                               | 0.50                      | 2.40  |
| 100                             | 16*28                   | 1900                                               | 0.46                      | 2.40  |
| 100                             | 18*26                   | 1900                                               | 0.42                      | 2.35  |
| 100                             | 18*30                   | 2050                                               | 0.40                      | 2.30  |
| 100                             | 18*32                   | 2100                                               | 0.38                      | 2.30  |
| 120                             | 18*32                   | 2200                                               | 0.38                      | 2.30  |

SHF 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                  | 100                                                 | 16.00                     | 32.00 |
| 2.2                             | 8*12                    | 120                                                 | 14.00                     | 29.00 |
| 3.3                             | 8*12                    | 150                                                 | 13.00                     | 28.00 |
| 4.7                             | 8*12                    | 180                                                 | 6.00                      | 22.00 |
| 4.7                             | 8*15                    | 190                                                 | 5.80                      | 20.00 |
| 4.7                             | 10*13                   | 195                                                 | 5.50                      | 14.50 |
| 6.8                             | 8*15                    | 210                                                 | 5.10                      | 13.00 |
| 6.8                             | 10*13                   | 235                                                 | 4.80                      | 11.80 |
| 8.2                             | 10*13                   | 260                                                 | 4.80                      | 11.00 |
| 10                              | 10*13                   | 275                                                 | 3.20                      | 8.70  |
| 10                              | 10*16                   | 290                                                 | 2.80                      | 7.50  |
| 10                              | 10*20                   | 310                                                 | 2.30                      | 7.10  |
| 10                              | 13*21                   | 335                                                 | 2.10                      | 6.40  |
| 15                              | 10*16                   | 385                                                 | 2.10                      | 6.40  |
| 15                              | 10*20                   | 395                                                 | 1.90                      | 6.20  |
| 15                              | 13*16                   | 395                                                 | 1.75                      | 5.90  |
| 22                              | 10*20                   | 580                                                 | 1.50                      | 4.90  |
| 22                              | 13*21                   | 580                                                 | 1.45                      | 4.90  |
| 22                              | 13*25                   | 600                                                 | 1.40                      | 4.80  |
| 22                              | 16*20                   | 620                                                 | 1.38                      | 4.90  |
| 33                              | 10*23                   | 680                                                 | 1.33                      | 4.80  |
| 33                              | 13*21                   | 680                                                 | 1.33                      | 4.60  |
| 33                              | 13*25                   | 795                                                 | 1.15                      | 4.30  |
| 33                              | 16*22                   | 815                                                 | 1.12                      | 4.30  |
| 33                              | 16*25                   | 835                                                 | 1.10                      | 4.30  |
| 47                              | 13*30                   | 935                                                 | 1.05                      | 4.10  |
| 47                              | 16*25                   | 955                                                 | 1.00                      | 3.90  |
| 47                              | 18*20                   | 990                                                 | 0.95                      | 3.90  |
| 56                              | 16*25                   | 1250                                                | 0.95                      | 4.10  |
| 56                              | 18*20                   | 1380                                                | 0.75                      | 3.00  |
| 68                              | 13*40                   | 1390                                                | 0.73                      | 2.95  |
| 68                              | 13*32                   | 1480                                                | 0.70                      | 2.90  |
| 68                              | 13*50                   | 1480                                                | 0.65                      | 2.70  |
| 68                              | 16*31.5                 | 1580                                                | 0.60                      | 2.60  |
| 68                              | 18*22                   | 1580                                                | 0.52                      | 2.50  |
| 68                              | 18*25                   | 1750                                                | 0.52                      | 2.50  |
| 82                              | 18*30                   | 1850                                                | 0.50                      | 2.40  |
| 82                              | 18*32                   | 1980                                                | 0.46                      | 2.40  |
| 100                             | 18*32                   | 2100                                                | 0.42                      | 2.35  |
| 100                             | 18*36                   | 2200                                                | 0.40                      | 2.30  |
| 100                             | 18*40                   | 2280                                                | 0.38                      | 2.30  |
| 120                             | 18*36                   | 2380                                                | 0.38                      | 2.30  |
| 120                             | 18*40                   | 2450                                                | 0.32                      | 2.20  |
| 180                             | 18*50                   | 2670                                                | 0.29                      | 2.10  |
| 220                             | 18*50                   | 2800                                                | 0.23                      | 1.90  |

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.

备注：以上所提供的设计及特性参数仅供参考，任何修改不作预先通知。如果在使用上有疑问，请再购买前与科尼盛联系，以便我们提供技术上的服务和协助。