

# KNSCHA

Empowering The World

## 广东科尼盛电子科技有限公司

## KNSCHA ELECTRONICS CO.,LIMITED

IATF16949:2016

ISO9001:2015

ISO14001:2015

### 部品规格书 APPROVE SHEET

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| 客 户 名 称<br>Customer Name |                                                                   |
| 产 品 名 称<br>Product Name  | 高分子固态电解电容器<br>Conductive Polymer Aluminum Electrolytic Capacitors |
| 客 户 料 号<br>Customer P/N  |                                                                   |
| 科 尼 盛 料 号<br>KNSCHA P/N  | 218EC0007                                                         |
| 型 号 规 格<br>Product Type  | 25V/100 $\mu$ F 3000Hours@105 $^{\circ}$ C 引线型,5x8mm KEP Series   |
| 日 期<br>Date              | 2024年11月04日                                                       |

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

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

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Empowering The World

## KNSCHA ELECTRONICS CO., LIMITED

IATF16949:2016 ISO9001:2015 ISO14001:2015

### Aluminum Electrolytic Capacitors

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



### Film Capacitors

- Source Manufacturer
- 10+ Years Experience



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

# WHO WE ARE



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

# KNSCHA

Empowering The World



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## KNSCHA ELECTRONICS CO.,LIMITED

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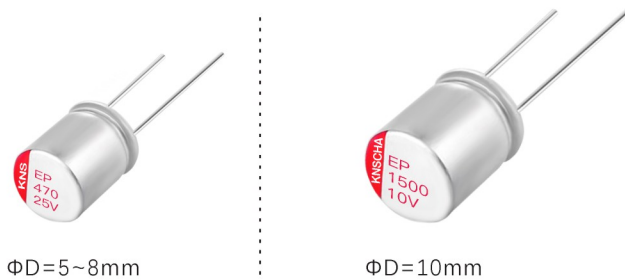
广东科尼盛电子科技有限公司  
KNSCHA ELECTRONICS CO.,LIMITED

IATF16949:2016    ISO9001:2015    ISO14001:2015

[illegible]

### 特性/ Features

- Load Life: 3000 hours at 105°C
- Ultra low ESR with large permissible ripple current
- RoHS Compliant
- 105°C 负荷寿命3000小时
- 极低等效串联电阻(ESR)并可承受大纹波电流
- 符合RoHS指令



Marking color: Red

引线型Radial

表1 规格表 Specifications

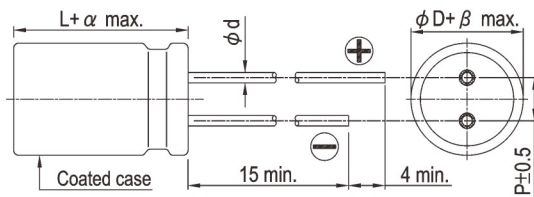
| 项目 Items                              | 性 能 Performance                                                                |                          |     |     |                        |               |      |                                                         |    |      |      |  |
|---------------------------------------|--------------------------------------------------------------------------------|--------------------------|-----|-----|------------------------|---------------|------|---------------------------------------------------------|----|------|------|--|
| 工作温度范围<br>Operating Temperature Range | -55℃~+105℃                                                                     |                          |     |     |                        |               |      |                                                         |    |      |      |  |
| 额定静电容量容许误差值<br>Capacitance Tolerance  | ± 20% (120 Hz, 20℃)                                                            |                          |     |     |                        |               |      |                                                         |    |      |      |  |
| 漏电流<br>Leakage Current(at 20℃)        | 测试时间<br>Time                                                                   | 2 分钟后<br>after 2 minutes |     |     | 漏电流<br>Leakage Current |               |      | I≤0.2CV or 300(uA/微安)<br>之中任一较大值以下which ever is greater |    |      |      |  |
| 损失角正切值<br>Tanδ (at 120 Hz, 20℃)       | 参阅标准品一览表                                                                       |                          |     |     |                        |               |      |                                                         |    |      |      |  |
| 等效串联电阻 ESR (mΩ/at 100k Hz, 20℃ max.)  | 参阅标准品一览表                                                                       |                          |     |     |                        |               |      |                                                         |    |      |      |  |
| 耐久性<br>Endurance                      | 在 105℃环境中，连续加载额定电压 30,00 小时后、待温度恢复到 20℃进行测量时，应满足以下要求。                          |                          |     |     |                        |               |      |                                                         |    |      |      |  |
|                                       | 外观                                                                             |                          |     |     |                        | 无明显变化         |      |                                                         |    |      |      |  |
|                                       | 静电容量变化率                                                                        |                          |     |     |                        | ≤ 初始值的± 20%   |      |                                                         |    |      |      |  |
|                                       | 损失角正切值                                                                         |                          |     |     |                        | ≤ 初始规格值的 150% |      |                                                         |    |      |      |  |
|                                       | 等效串联电阻(ESR)                                                                    |                          |     |     |                        | ≤ 初始规格值的 150% |      |                                                         |    |      |      |  |
|                                       | 漏电流                                                                            |                          |     |     |                        | ≤ 初始规格值       |      |                                                         |    |      |      |  |
| 耐湿性<br>Moisture Resistance            | 在60℃90 ~ 95%RH 环境中，连续加载额定电压1,000 小时后，待温度恢复到20℃进行测量时，应满足以下要求。                   |                          |     |     |                        |               |      |                                                         |    |      |      |  |
|                                       | 外观                                                                             |                          |     |     |                        | 无明显变化         |      |                                                         |    |      |      |  |
|                                       | 静电容量变化率                                                                        |                          |     |     |                        | ≤ 初始值的± 20%   |      |                                                         |    |      |      |  |
|                                       | 损失角正切值                                                                         |                          |     |     |                        | ≤ 初始规格值       |      |                                                         |    |      |      |  |
|                                       | 等效串联电阻(ESR)                                                                    |                          |     |     |                        | ≤ 初始规格值的 150% |      |                                                         |    |      |      |  |
|                                       | 漏电流                                                                            |                          |     |     |                        | ≤ 初始规格值       |      |                                                         |    |      |      |  |
| 浪涌电压特性                                | 在105℃环境中，按照充电30 秒、放电5 分30 秒连续加载浪涌电压1,000 次(Rc = 1kΩ) 后，待温度恢复到20℃进行测量时，应满足以下要求。 |                          |     |     |                        |               |      |                                                         |    |      |      |  |
|                                       | 额定电压 (RV)                                                                      | 2.5                      | 4   | 6.3 | 7.5                    | 10            | 12   | 16                                                      | 20 | 25   | 35   |  |
|                                       | 浪涌电压 (SV)                                                                      | 2.9                      | 4.6 | 7.2 | 8.6                    | 11.5          | 13.8 | 18.4                                                    | 23 | 28.8 | 40.3 |  |
|                                       | 外观                                                                             |                          |     |     |                        | 无明显变化         |      |                                                         |    |      |      |  |
|                                       | 静电容量变化率                                                                        |                          |     |     |                        | ≤ 初始值的± 20%   |      |                                                         |    |      |      |  |
|                                       | 损失角正切值                                                                         |                          |     |     |                        | ≤ 初始规格值       |      |                                                         |    |      |      |  |
|                                       | 等效串联电阻(ESR)                                                                    |                          |     |     |                        | ≤ 初始规格值的 150% |      |                                                         |    |      |      |  |
| 漏电流                                   |                                                                                |                          |     |     | ≤ 初始规格值                |               |      |                                                         |    |      |      |  |

表2 纹波电流的频率系数  
Srequency Coefficient For Ripple Current

| Frequency   | 120Hz≤freq.<br><1KHz | 1KHz≤freq.<br><10KHz | 10KHz≤freq.<br><100KHz | 100KHz≤freq.<br><300KHz |
|-------------|----------------------|----------------------|------------------------|-------------------------|
| Coefficient | 0.05                 | 0.3                  | 0.7                    | 1                       |

表3 外形尺寸 Dimensions(mm)

| Lead Spacing and Diameter |     |     |     |     |      |
|---------------------------|-----|-----|-----|-----|------|
| Unit: mm                  |     |     |     |     |      |
| ΦD                        | 5.0 | 5.5 | 6.3 | 8.0 | 10.0 |
| P                         | 2.0 | 2.5 | 2.5 | 3.5 | 5.0  |
| Φd                        | 0.5 | 0.5 | 0.5 | 0.6 | 0.6  |
| β                         | 0.5 |     |     |     |      |
| α                         | 1.0 |     |     |     |      |



Marking

ΦD=5~8

ΦD=10

