

# 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  | 贴片型铝电解电容器<br>SMD Aluminum Electrolytic Capacitors                      |
| 客 户 料 号<br>Customer P/N  |                                                                        |
| 科 尼 盛 料 号<br>KNSCHA P/N  | 225RV0037                                                              |
| 型 号 规 格<br>Product Type  | 470uF $\pm 20\%$ 10V 105°C@2000Hours<br>SMD,D6.3xL7.7mm KNS RVT Series |
| 日 期<br>Date              | 2025年03月15日                                                            |

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

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

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## KNSCHA ELECTRONICS CO., LIMITED

IATF16949:2016 ISO9001:2015 ISO14001:2015

### Aluminum Electrolytic Capacitors

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



### Film Capacitors

- Source Manufacturer
- 10+ Years Experience



c **UL** <sup>®</sup> US

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

**DE**

**CQC**

**CCC**

**TÜV**



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[illegible]



RVT

105℃,2000Hrs,Standard Series

特性/ Features

105℃, 2000 hours assured.  
Available for high density surface mounting.  
High stability and reliability.

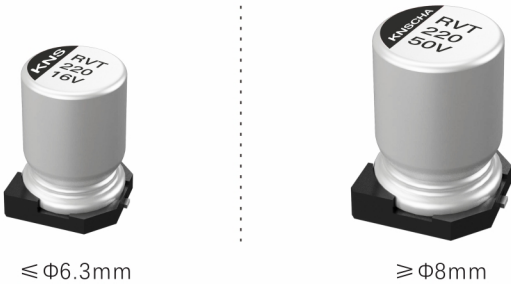


表1 规格表 Specifications

| Item                            | Condition                                                   |                                      | Specifications                              |      |      |      |      |      |      |      |
|---------------------------------|-------------------------------------------------------------|--------------------------------------|---------------------------------------------|------|------|------|------|------|------|------|
| Category Temperature Range(℃)   | ※                                                           |                                      | -40℃ ~ +105℃                                |      |      |      |      |      |      |      |
| Capacitance Tolerance (%)       | 120Hz, 20℃                                                  |                                      | ±20%                                        |      |      |      |      |      |      |      |
| Rated Voltage (v)               | ※                                                           |                                      | 6.3                                         | 10   | 16   | 25   | 35   | 50   | 63   | 100  |
| Dissipation Factor (tanδ)       | 120Hz, 20℃ (Max.)                                           | tanδ                                 | 0.30                                        | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | 0.14 | 0.14 |
|                                 |                                                             | Notes                                | Exceeding 1,000uF, +0.02 every 1,000uF      |      |      |      |      |      |      |      |
| Leakage Current (LC)            | After 2 minutes, 20℃ (uA, Max.)                             |                                      | 0.01CV or 3uA, whichever is greater.        |      |      |      |      |      |      |      |
| Low Temperature Characteristics | Impedance Ratio (Max.)                                      | Z <sub>25℃</sub> /Z <sub>+20℃</sub>  | 5                                           | 4    | 3    | 2    | 2    | 2    | 2    | 2    |
|                                 |                                                             | Z <sub>-40℃</sub> /Z <sub>+20℃</sub> | 10                                          | 8    | 6    | 4    | 3    | 3    | 3    | 3    |
| Endurance                       | 105℃, Rated Voltage Applied (With the rated ripple current) | Hours                                | 2,000                                       |      |      |      |      |      |      |      |
|                                 |                                                             | ΔC/C                                 | Within ±30% of initial value                |      |      |      |      |      |      |      |
|                                 |                                                             | tanδ                                 | 300% or less of the initial specified value |      |      |      |      |      |      |      |
|                                 |                                                             | LC                                   | The initial specified value or less         |      |      |      |      |      |      |      |
| Shelf life                      | 105℃                                                        | Hours                                | 1,000                                       |      |      |      |      |      |      |      |
|                                 |                                                             | Other Items                          | same as those for the endurance.            |      |      |      |      |      |      |      |

表2 外形尺寸 Dimensions(mm)

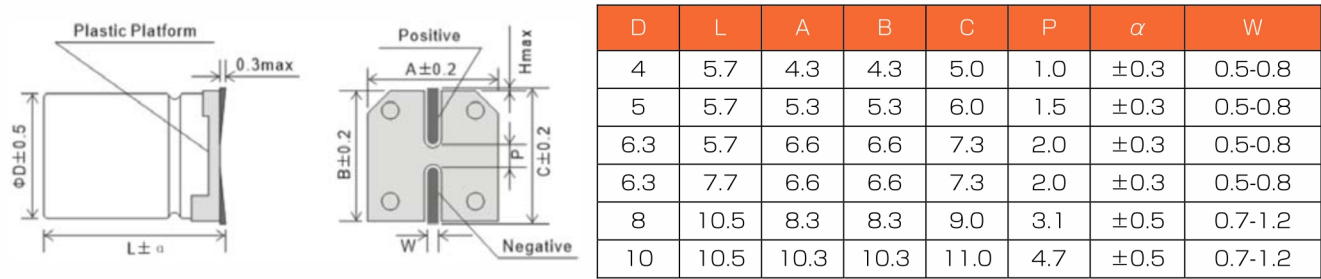


表3 纹波电流与频率补正系数 Ripple Current and Frequency Multipliers

| Frequency (Hz)<br>Capacitance (uF) | 50   | 120  | 1k   | 10k up |
|------------------------------------|------|------|------|--------|
| Under 100                          | 0.70 | 1.00 | 1.35 | 1.50   |
| 100 ~ 2200uF                       | 0.80 | 1.00 | 1.20 | 1.30   |



表4 标准品一览表 Standard Size

| uF   | 6.3v (0J) |      | 10v (1A) |      | 16v (1C) |      | 25v (1E) |      | 35v (1V) |      | 50v (1H) |      | 63v (1J) |      | 100v (2A) |      |
|------|-----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|-----------|------|
|      | ΦD x L    | R.C. | ΦD x L   | R.C. | ΦD x L   | R.C. | ΦD x L   | R.C. | ΦD x L   | R.C. | ΦD x L   | R.C. | ΦD x L   | R.C. | ΦD x L    | R.C. |
| 1.0  |           |      |          |      |          |      |          |      |          |      | 4x5.7    | 7    | 4x5.7    | 7    | 4x5.7     | 7    |
| 2.2  |           |      |          |      |          |      |          |      |          |      | 4x5.7    | 11   | 4x5.7    | 11   | 4x5.7     | 9    |
| 3.3  |           |      |          |      |          |      |          |      | 4x5.7    | 13   | 4x5.7    | 13   | 5x5.7    | 13   | 5x5.8     | 14   |
| 4.7  |           |      |          |      |          |      | 4x5.7    | 13   | 4x5.7    | 14   | 4x5.7    | 13   | 5x5.7    | 16   | 5x5.8     | 16   |
| 6.8  |           |      |          |      |          |      | 4x5.7    | 14   | 4x5.7    | 14   | 4x5.7    | 14   | 5x5.7    | 17   | 6.3x5.7   | 21   |
| 10   |           |      |          |      | 4x5.7    | 18   | 4x5.7    | 14   | 4x5.7    | 14   | 5x5.7    | 18   | 5x5.7    | 19   | 6.3x5.7   | 35   |
| 22   |           |      | 4x5.7    | 20   | 4x5.7    | 20   | 4x5.7    | 19   | 5x5.7    | 30   | 6.3x5.7  | 42   | 6.3x5.7  | 40   | 6.3x7.7   | 60   |
| 33   | 4x5.7     | 22   | 4x5.7    | 22   | 4x5.7    | 22   | 4x5.7    | 22   | 5x5.7    | 34   | 6.3x5.7  | 45   | 6.3x7.7  | 53   | 8x10.5    | 90   |
| 47   | 4x5.7     | 25   | 4x5.7    | 25   | 5x5.7    | 31   | 5x5.7    | 35   | 6.3x5.7  | 50   | 6.3x7.7  | 63   | 6.3x7.7  | 75   | 10x10.5   | 140  |
| 68   | 4x5.7     | 25   | 5x5.7    | 40   | 5x5.7    | 31   | 6.3x5.7  | 48   | 6.3x5.7  | 50   | 6.3x7.7  | 63   | 8x10.5   | 125  | 10x10.5   | 155  |
| 100  | 5x5.7     | 39   | 5x5.7    | 45   | 6.3x5.7  | 60   | 6.3x5.7  | 72   | 6.3x7.7  | 84   | 8x10.5   | 140  | 8x10.5   | 135  |           |      |
| 150  | 6.3x5.7   | 50   | 6.3x5.7  | 53   | 6.3x5.7  | 60   | 6.3x7.7  | 91   | 8x10.5   | 120  | 8x10.5   | 140  | 10x10.5  | 195  |           |      |
| 220  | 5x5.7     | 45   | 6.3x5.7  | 62   | 6.3x5.7  | 65   | 6.3x7.7  | 100  | 6.3x7.7  | 95   | 8x10.5   | 155  | 10x10.5  | 205  |           |      |
| 330  | 6.3x5.7   | 67   | 6.3x5.7  | 70   | 6.3x7.7  | 110  | 6.3x7.7  | 120  | 8x10.5   | 190  | 10x10.5  | 220  |          |      |           |      |
| 470  | 6.3x7.7   | 105  | 6.3x7.7  | 105  | 6.3x7.7  | 120  | 8x10.5   | 220  | 8x10.5   | 225  |          |      |          |      |           |      |
| 680  | 6.3x7.7   | 120  | 6.3x7.7  | 130  | 8x10.5   | 195  | 10x10.5  | 240  | 10x10.5  | 245  |          |      |          |      |           |      |
| 1000 | 8x10.5    | 210  | 8x10.5   | 210  | 8x10.5   | 230  | 8x10.5   | 240  | 10x10.5  | 320  |          |      |          |      |           |      |
| 1500 | 8x10.5    | 230  | 8x10.5   | 240  | 10x10.5  | 255  | 10x10.5  | 280  | 10x12.5  | 375  |          |      |          |      |           |      |
| 2200 | 10x10.5   | 315  | 10x10.5  | 260  | 10x10.5  | 315  |          |      |          |      |          |      |          |      |           |      |
|      | 10x12.5   | 450  | 10x12.5  | 270  | 10x12.5  | 390  |          |      |          |      |          |      |          |      |           |      |
|      | 10x10.5   | 350  |          |      |          |      |          |      |          |      |          |      |          |      |           |      |
|      | 10x12.5   | 520  |          |      |          |      |          |      |          |      |          |      |          |      |           |      |

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105℃, 120Hz.  
Note2: Produce custom product too, which are not found in these tables.