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 | 225RV0042 |
| 型 号 规 格<br>Product Type | 10uF ±20% 35V 105℃@2000Hours<br>SMD,D4xL5.4mm 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 |
| 王涛 | 刘勇分 |

| 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




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## PRODUCT CHARACTERISTICS

| 型号 P/N | 额定工作电压 Rated Voltage (V) | 静电容量容值 Capacitance (±20%) (μF) | 使用温度范围 Category temp. range (℃) | 规格尺寸 Case size (mm) | 等效串联电阻 ESR(100kHz/+20℃) (mΩ) | 允许最大纹波电流 Ripple current (120kHz/+105℃) (mA/rms) | 损耗角的正切 (120Hz/+20℃) (tanδ) | 漏电流 L C (μA) | 耐久性 Endurance (Hours) |
|---|---|---|---|---|---|---|---|---|---|
| 225RV0042 | 35 | 10 | -40~+105 | D4xL5.4 | ***** | 18 | 0.14 | ≤3.5 | 2000 |
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# RVT

105℃,2000Hrs,Standard Series




≤Φ6.3mm




≥Φ8mm

## 特性/ Features

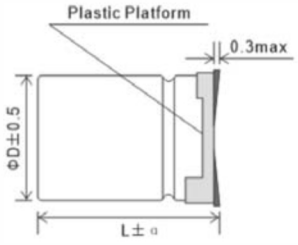
105℃, 2000 hours assured.
Available for high density surface mounting.
High stability and reliability.

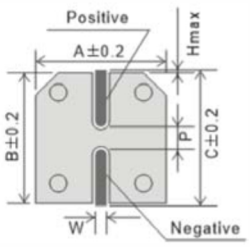


## ■表1 规格表 Specifications

| 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.) | $Z_{-25℃}/Z_{+20℃}$ | 5 | 4 | 3 | 2 | 2 | 2 | 2 | 2 |
| | | $Z_{-40℃}/Z_{+20℃}$ | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 |
| Endurance | 105℃, Rated Voltage Applied (With the rated ripple current) | Hours | 2,000 | | | | | | | |
| | | △C/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)




| D | L | A | B | C | P | α | W |
|---|---|---|---|---|---|---|---|
| 4 | 5.7 | 4.3 | 4.3 | 5.0 | 1.0 | ±0.3 | 0.5-0.8 |
| 5 | 5.7 | 5.3 | 5.3 | 6.0 | 1.5 | ±0.3 | 0.5-0.8 |
| 6.3 | 5.7 | 6.6 | 6.6 | 7.3 | 2.0 | ±0.3 | 0.5-0.8 |
| 6.3 | 7.7 | 6.6 | 6.6 | 7.3 | 2.0 | ±0.3 | 0.5-0.8 |
| 8 | 10.5 | 8.3 | 8.3 | 9.0 | 3.1 | ±0.5 | 0.7-1.2 |
| 10 | 10.5 | 10.3 | 10.3 | 11.0 | 4.7 | ±0.5 | 0.7-1.2 |

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

| Frequency (Hz) / 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

| WV / 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<br>5x5.8 | 9<br>11 |
| 3.3 | | | | | | | | | 4x5.7 | 13 | 4x5.7 | 13 | 5x5.7 | 13 | 5x5.8 | 14 |
| 4.7 | | | | | | | 4x5.7 | 13 | 4x5.7 | 14 | 4x5.7<br>5x5.7 | 13<br>16 | 5x5.7 | 16 | 5x5.8<br>6.3x5.7 | 16<br>21 |
| 6.8 | | | | | | | 4x5.7 | 14 | 4x5.7 | 14 | 4x5.7<br>5x5.7 | 14<br>17 | 5x5.7 | 17 | 6.3x5.7 | 21 |
| 10 | | | | | 4x5.7 | 18 | 4x5.7<br>5x5.7 | 14<br>20 | 4x5.7<br>5x5.7 | 14<br>21 | 5x5.7<br>6.3x5.7 | 18<br>24 | 5X5.7<br>6.3x5.7 | 19<br>24 | 6.3x5.7<br>6.3x7.7 | 35<br>50 |
| 22 | | | 4x5.7<br>5x5.7 | 20<br>25 | 4x5.7<br>5x5.7 | 20<br>27 | 4x5.7<br>5x5.7 | 19<br>25 | 5x5.7<br>6.3x5.7 | 30<br>38 | 6.3x5.7<br>6.3x7.7 | 42<br>51 | 6.3x5.7<br>6.3X7.7 | 40<br>49 | 6.3x7.7<br>8x10.5 | 60<br>84 |
| 33 | 4x5.7 | 22 | 4x5.7<br>5x5.7 | 22<br>30 | 4x5.7<br>5x5.7 | 22<br>28 | 4x5.7<br>5x5.7 | 22<br>29 | 5x5.7<br>6.3x5.7 | 34<br>42 | 6.3x5.7<br>6.3x7.7 | 45<br>60 | 6.3x7.7<br>8x10.5 | 53<br>112 | 8x10.5<br>10x10.5 | 90<br>133 |
| 47 | 4x5.7<br>5x5.7 | 25<br>33 | 4x5.7<br>5x5.7 | 25<br>30 | 5x5.7<br>6.3x5.7 | 31<br>48 | 5x5.7<br>6.3x5.7 | 35<br>48 | 6.3x5.7<br>6.3x7.7 | 50<br>70 | 6.3x7.7 | 63 | 6.3x7.7<br>8x10.5 | 75<br>119 | 10x10.5 | 140 |
| 68 | 4x5.7<br>5x5.7 | 25<br>33 | 5x5.7 | 40 | 5x5.7<br>6.3x5.7 | 31<br>48 | 6.3x5.7 | 48 | 6.3x5.7<br>6.3x7.7 | 50<br>70 | 6.3x7.7<br>8x10.5 | 63<br>120 | 8x10.5 | 125 | 10x10.5<br>10x12.5 | 155<br>180 |
| 100 | 5x5.7<br>6.3x5.7 | 39<br>50 | 5x5.7<br>6.3x5.7 | 45<br>53 | 6.3x5.7 | 60 | 6.3x5.7<br>6.3x7.7 | 72<br>91 | 6.3x7.7<br>8x10.5 | 84<br>120 | 8x10.5 | 140 | 8x10.5<br>10x10.5 | 135<br>195 | | |
| 150 | 5x5.7<br>6.3x5.7 | 45<br>55 | 6.3x5.7 | 62 | 6.3x5.7<br>6.3x7.7 | 65<br>95 | 6.3x7.7 | 100 | 6.3x7.7<br>8x10.5 | 95<br>155 | 8x10.5<br>10x10.5 | 155<br>170 | 10x10.5<br>10x12.5 | 205<br>225 | | |
| 220 | 6.3x5.7<br>6.3x7.7 | 67<br>105 | 6.3x5.7<br>6.3x7.7 | 70<br>105 | 6.3x7.7 | 110 | 6.3x7.7<br>8x10.5 | 120<br>175 | 8x10.5<br>10x10.5 | 190<br>220 | 10x10.5 | 220 | | | | |
| 330 | 6.3x7.7 | 105 | 6.3x7.7 | 130 | 6.3x7.7<br>8x10.5 | 120<br>195 | 8x10.5<br>10x10.5 | 220<br>240 | 8x10.5<br>10x10.5 | 225<br>245 | | | | | | |
| 470 | 6.3x7.7<br>8x10.5 | 120<br>210 | 6.3x7.7<br>8x10.5 | 150<br>210 | 8x10.5 | 230 | 8x10.5<br>10x10.5 | 240<br>280 | 10x10.5<br>10x12.5 | 320<br>375 | | | | | | |
| 680 | 8x10.5 | 210 | 8x10.5<br>10x10.5 | 240<br>270 | 8x10.5<br>10x10.5 | 255<br>315 | 10x10.5<br>10x12.5 | 350<br>400 | | | | | | | | |
| 1000 | 8x10.5<br>10x10.5 | 230<br>300 | 8x10.5<br>10x10.5 | 260<br>315 | 10x10.5<br>10x12.5 | 330<br>390 | | | | | | | | | | |
| 1500 | 10x10.5<br>10x12.5 | 315<br>450 | 10x12.5 | 460 | | | | | | | | | | | | |
| 2200 | 10x10.5<br>10x12.5 | 350<br>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.

# Unikeyic Electronics

Global Electronic Components Distributor

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## KNSCHA:

RVT4.7UF100V67RV0118 VT10UF16V167RV0128 01EC4294SHC1000UF25V 225RV0026 225RV0058 MPP104J2J15AJ22600 RVE100UF35V67RV0072 RVT100UF16V67RV0016 189RV0036 MEB105J63V82CB0235 RVT100UF50V67RV0040 XT220UF50V90RV0078 126RV0008 126RV0004 MPX155K31D7KN15800 RVT22UF50V67RV0028 XT47UF35V90RV0081 225RV0029 225RV0065 FZ100UF35V90RV0145 FZ220UF50V90RV0126 MPX472K31C2KN15600 225RV0041 RVT100UF35V34RV0158 189RV0063 225RV0031 SHG330UF50V01EC2021 XT100UF10V90RV0060 178MU0009 MMK103J3AC3KN156G2