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 Customer Name	
产 品 名 称 Product Name	贴片型铝电解电容器 SMD Aluminum Electrolytic Capacitors
客 户 料 号 Customer P/N	
科 尼 盛 料 号 KNSCHA P/N	225RV0031
型 号 规 格 Product Type	47uF ±20% 50V 105˚C@2000Hours SMD,D6.3xL7.7mm KNS RVT Series
日期 Date	2025年03月15日

制 造 Manufacture	
核 准 APPROVAL	制 作 PREPARED
王	刘

客 户 承 认 栏 CUSTOMER APPROVED		
核 准 APPROVED	确 认 CHECKED	经 办 DESIGNED

网址：www.knscha.com 邮箱：sales@knscha.com

电话：0769-81035570 83698067 传真：0769-83861559

营业中心：东莞市寮步镇香市科技产业园松湖智谷研发中心A3栋8层
8th floor,Building A3,Songshan Lake Intelligent Valley,Dongguan, Guangdong,China

总部基地：广东省东莞市东坑镇农横路7号汇金展拓科技园
Building 3, No.7 Nongheng Road, Dongkeng Town, Dongguan, Guangdong Province, China

杭州分公司：浙江省杭州市余杭区临平余之城1栋20楼

厦门办事处：福建省厦门市集美区厦门软件园三期F12栋901-8室

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Aluminum Electrolytic Capacitors

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



Film Capacitors

- Source Manufacturer
- 10+ Years Experience



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+86(769)83698067
+86(769)83861559
www.knscha.cn
cathy@knscha.com
8th floor,Building A3,Songshan Lake Intelligent Valley,Dongguan,Guangdong,China
Building 3, No.7 Nongheng Road, Dongkeng Town, Dongguan, Guangdong Province, China

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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)
225RV0031	50	47	-40~+105	D6.3xL7.7	*****	66	0.12	≤23.5	2000

RVT

105℃,2000Hrs,Standard Series



≤Φ6.3mm



≥Φ8mm

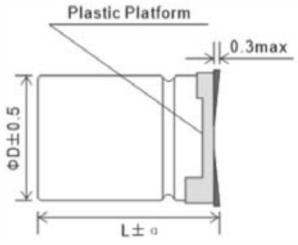
特性/ Features

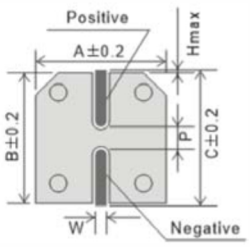
105℃, 2000 hours assured.
Available for high density surface mounting.
High stability and reliability.

■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 5x5.8	9 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 5x5.7	13 16	5x5.7	16	5x5.8 6.3x5.7	16 21
6.8							4x5.7	14	4x5.7	14	4x5.7 5x5.7	14 17	5x5.7	17	6.3x5.7	21
10					4x5.7	18	4x5.7 5x5.7	14 20	4x5.7 5x5.7	14 21	5x5.7 6.3x5.7	18 24	5X5.7 6.3x5.7	19 24	6.3x5.7 6.3x7.7	35 50
22			4x5.7 5x5.7	20 25	4x5.7 5x5.7	20 27	4x5.7 5x5.7	19 25	5x5.7 6.3x5.7	30 38	6.3x5.7 6.3x7.7	42 51	6.3x5.7 6.3X7.7	40 49	6.3x7.7 8x10.5	60 84
33	4x5.7	22	4x5.7 5x5.7	22 30	4x5.7 5x5.7	22 28	4x5.7 5x5.7	22 29	5x5.7 6.3x5.7	34 42	6.3x5.7 6.3x7.7	45 60	6.3x7.7 8x10.5	53 112	8x10.5 10x10.5	90 133
47	4x5.7 5x5.7	25 33	4x5.7 5x5.7	25 30	5x5.7 6.3x5.7	31 48	5x5.7 6.3x5.7	35 48	6.3x5.7 6.3x7.7	50 70	6.3x7.7	63	6.3x7.7 8x10.5	75 119	10x10.5	140
68	4x5.7 5x5.7	25 33	5x5.7	40	5x5.7 6.3x5.7	31 48	6.3x5.7	48	6.3x5.7 6.3x7.7	50 70	6.3x7.7 8x10.5	63 120	8x10.5	125	10x10.5 10x12.5	155 180
100	5x5.7 6.3x5.7	39 50	5x5.7 6.3x5.7	45 53	6.3x5.7	60	6.3x5.7 6.3x7.7	72 91	6.3x7.7 8x10.5	84 120	8x10.5	140	8x10.5 10x10.5	135 195		
150	5x5.7 6.3x5.7	45 55	6.3x5.7	62	6.3x5.7 6.3x7.7	65 95	6.3x7.7	100	6.3x7.7 8x10.5	95 155	8x10.5 10x10.5	155 170	10x10.5 10x12.5	205 225		
220	6.3x5.7 6.3x7.7	67 105	6.3x5.7 6.3x7.7	70 105	6.3x7.7	110	6.3x7.7 8x10.5	120 175	8x10.5 10x10.5	190 220	10x10.5	220				
330	6.3x7.7	105	6.3x7.7	130	6.3x7.7 8x10.5	120 195	8x10.5 10x10.5	220 240	8x10.5 10x10.5	225 245						
470	6.3x7.7 8x10.5	120 210	6.3x7.7 8x10.5	150 210	8x10.5	230	8x10.5 10x10.5	240 280	10x10.5 10x12.5	320 375						
680	8x10.5	210	8x10.5 10x10.5	240 270	8x10.5 10x10.5	255 315	10x10.5 10x12.5	350 400								
1000	8x10.5 10x10.5	230 300	8x10.5 10x10.5	260 315	10x10.5 10x12.5	330 390										
1500	10x10.5 10x12.5	315 450	10x12.5	460												
2200	10x10.5 10x12.5	350 520														

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

Click to view pricing, inventory, delivery, and lifecycle information:

KNSCHA:

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