

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	225RV0052
型 号 规 格 Product Type	10uF ±20% 25V 105°C@2000Hours SMD,D5xL5.4mm KNS RVT Series
日 期 Date	2025年03月15日

制 造 Manufacture	
核 准 APPROVAL	制 作 PREPARED
王 伟	刘 国 华

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

④ 网址: www.knscha.com ④ 邮箱: sales@knscha.com

④ 电话: 0769-81035570 83698067 ④ 传真: 0769-83861559

④ 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

④ 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

④ 杭州分公司: 浙江省杭州市余杭区临平余之城1栋20楼
④ 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

KNSCHA

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



KNSCHA

Empowering The World



+86(769)83698067

www.knscha.cn

8th floor, Building A3, Songshan Lake Intelligent Valley, Dongguan, Guangdong, China

Building 3, No.7 Nongheng Road, Dongkeng Town, Dongguan, Guangdong Province, China

+86(769)83861559

cathy@knscha.com

KNSCHA ELECTRONICS CO., LIMITED

IATF16949:2016 ISO9001:2015 ISO14001:2015

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

IATF16949:2016 ISO9001:2015 ISO14001:2015

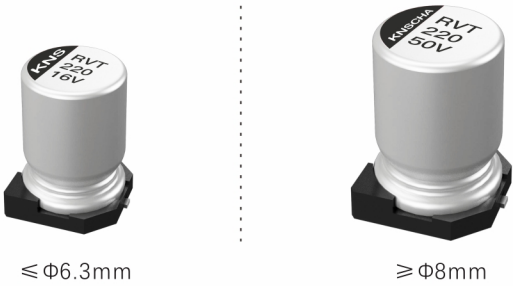
[illegible]

RVT

105℃,2000Hrs,Standard Series

特性/ Features

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



贴片型SMD

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								
		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) 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	60	6.3x7.7	75	10x10.5	133
68	5x5.7	33	5x5.7	30	6.3x5.7	48	6.3x5.7	48	6.3x7.7	70	6.3x7.7	63	8x10.5	112	10x10.5	140
100	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
150	5x5.7	33	5x5.7	40	6.3x5.7	48	6.3x5.7	48	6.3x7.7	70	6.3x7.7	70	8x10.5	120	10x12.5	180
220	5x5.7	39	5x5.7	45	6.3x5.7	60	6.3x5.7	72	6.3x7.7	84	8x10.5	140	8x10.5	135		
330	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		
470	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		
680	6.3x5.7	55	6.3x5.7	62	6.3x7.7	95	6.3x7.7	100	8x10.5	155	10x10.5	170	10x12.5	225		
1000	6.3x5.7	67	6.3x5.7	70	6.3x7.7	110	6.3x7.7	120	8x10.5	190	10x10.5	220				
1500	6.3x7.7	105	6.3x7.7	105	6.3x7.7	120	8x10.5	175	8x10.5	220	10x10.5	225				
2200	6.3x7.7	105	6.3x7.7	130	8x10.5	195	10x10.5	240	10x10.5	245						
3300	6.3x7.7	120	6.3x7.7	150	8x10.5	230	8x10.5	240	10x10.5	320						
4700	8x10.5	210	8x10.5	210	10x10.5	280	10x10.5	280	10x12.5	375						
6800	8x10.5	240	8x10.5	240	10x10.5	350	10x10.5	350								
10000	10x10.5	270	10x10.5	270	10x10.5	315	10x12.5	400								
15000	8x10.5	230	8x10.5	260	10x10.5	330										
22000	10x10.5	300	10x10.5	315	10x12.5	390										
33000	10x10.5	315	10x12.5	460												
47000	10x12.5	450														
68000	10x10.5	350														
100000	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.