

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	225RV0053
型 号 规 格 Product Type	10uF ±20% 16V 105°C@2000Hours SMD,D4xL5.4mm 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

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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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EN ¹⁰

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TÜV

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RVT

105℃,2000Hrs,Standard Series

特性/ Features

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

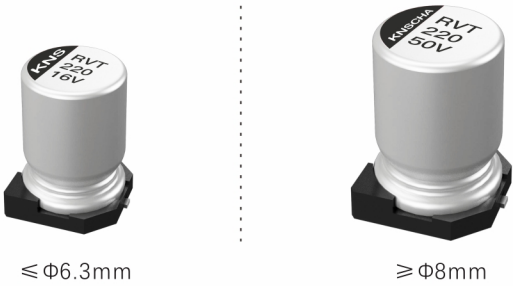


表1 规格表 Specifications

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 _{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)

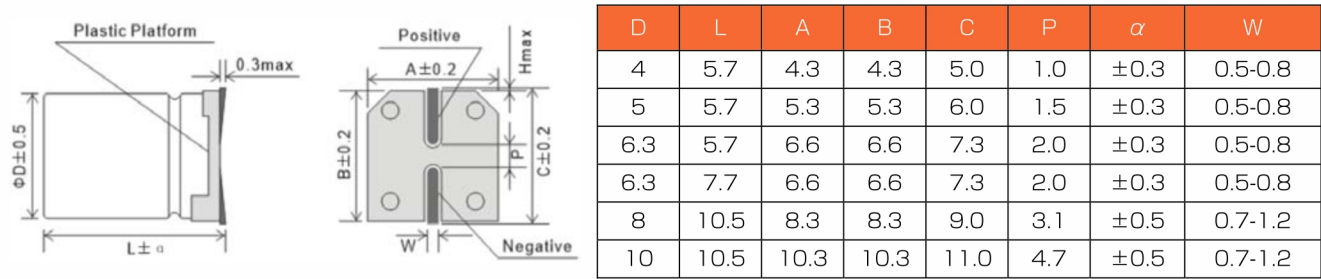


表3 纹波电流与频率补正系数 Ripple Current and Frequency Multipliers

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	39	5x5.7	45	6.3x5.7	60	6.3x5.7	72	6.3x7.7	84	8x10.5	120	8x10.5	135	10x12.5	180
220	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		
330	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		
470	6.3x5.7	67	6.3x5.7	70	6.3x7.7	110	6.3x7.7	120	8x10.5	190	10x10.5	170	10x12.5	225		
680	6.3x7.7	105	6.3x7.7	105	6.3x7.7	120	8x10.5	175	8x10.5	220	10x10.5	220				
1000	6.3x7.7	105	6.3x7.7	130	8x10.5	195	8x10.5	220	8x10.5	225						
1500	8x10.5	210	8x10.5	210	10x10.5	240	10x10.5	240	10x10.5	245						
2200	8x10.5	210	8x10.5	240	8x10.5	230	10x10.5	240	10x10.5	320						
	10x10.5	230	10x10.5	260	10x10.5	255	10x10.5	280	10x12.5	375						
	10x10.5	300	10x10.5	315	10x10.5	315	10x10.5	350								
	10x12.5	450	10x12.5	460	10x12.5	400										
	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.