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	225RV0033
型 号 规 格 Product Type	100uF ±20% 50V 105℃@3000Hours SMD,D8xL10.2mm KNSCHA RVE Series 高频低阻
日期 Date	2025年03月14日

制 造 Manufacture	
核 准 APPROVAL	制 作 PREPARED
王帅	刘秀芬

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

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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

cULus EAC VDE CQC KC TÜV

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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 (100kHz/+105℃) (mA/rms)	损耗角的正切 (120Hz/+20℃) (tanδ)	漏电流 L C (μA)	耐久性 Endurance (Hours)
225RV0033	50	100	-40~+105	D8xL10.2	600	300	0.12	≤50	3000

RVE 105℃,Low Impedance. Series

特性/ Features

105℃, 2000~3000 hours assured, Low Impedance.
Available for high density surface mounting.
High stability and reliability.

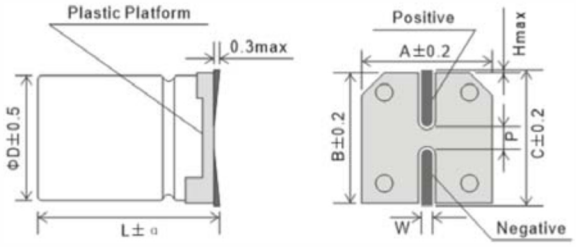
≤Φ6.3mm

≥Φ8mm

■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	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.08
		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.)	$Z_{-25℃}/Z_{+20℃}$	4	3	2	2	2	2	2	2
		$Z_{-55℃}/Z_{+20℃}$	8	5	4	3	3	3	3	3
Endurance	105℃, Rated Voltage Applied (With the rated ripple current)	Hours	3,000 (2,000hrs. for Ø4~Ø6.3)							
		△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	100K
Under 100	0.35	0.50	0.70	0.90	1.00
100 ~ 2200uF	0.40	0.65	0.85	0.95	1.00

■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)		
	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.
1																4x5.7	5.0	30
1.5																4x5.7	5.0	30
2.2																4x5.7	5.0	30
3.3													4x5.7	3.0	60	4x5.7 5x5.7	5.0 3.0	30 50
4.7													4x5.7	3.0	60	4x5.7 5x5.7	5.0 3.0	30 50
10										4x5.7	3.0	60	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7 6.3x5.7	3.0 2.0	50 70
15							4x5.7	3.0	60	4x5.7	3.0	60	5x5.7	1.8	95	6.3x5.7	2.0	70
22				4x5.7	3.0	60	4x5.7 5x5.7	3.0 1.8	60 95	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7	1.8	95	6.3x5.7	2.0	70
33				4x5.7	3.0	60	4x5.7 5x5.7	3.0 1.8	60 95	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7 6.3x7.7	2.0 1.0	70 120
47	4x5.7	3.0	60	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7 6.3x5.7	1.8 1.0	95 140	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7	1.0	140	6.3x7.7	1.0	120
56	5x5.7	1.8	95	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x7.7	1.0	120
68	5x5.7	1.8	95	5x5.7	1.8	95	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7	1.0	140	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7 8x10.5	1.0 0.6	120 300
100	5x5.7	1.8	95	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7	0.6	230	8x10.5 10x10.5	0.6 0.3	300 500
150	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7	1.0	140	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7 8x10.5	0.6 0.3	230 450	6.3x7.7 8x10.5	0.6 0.3	230 450	10x10.5	0.3	500
220	6.3x5.7	1.0	140	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7	0.6	230	8x10.5	0.3	450	8x10.5 10x10.5	0.3 0.15	450 670	10x10.5 10x12.5	0.3 0.16	500 580
330	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7	0.6	230	6.3x7.7 8x10.5	0.6 0.3	230 450	8x10.5 10x10.5	0.3 0.15	450 670	10x10.5	0.15	670			
470	6.3x7.7	0.6	230	6.3x7.7 8x10.5	0.6 0.3	230 450	8x10.5	0.3	450	10x10.5 10x12.5	0.15 0.08	670 800	10x10.5 10x12.5	0.15 0.08	670 800			
680	8x10.5	0.3	450	8x10.5	0.3	450	8x10.5 10x10.5	0.3 0.15	450 670									
1000	8x10.5	0.3	450	8x10.5 10x10.5	0.3 0.15	450 670	10x10.5	0.15	670									
1500	8x10.5 10x10.5	0.3 0.15	450 670															

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105℃, 100KHz.
Note2: Produce custom product too, which are not found in these tables.

WV / uF	63v(1J)			80v(1K)			100v(2A)		
	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.
4.7	5x5.7	3.0	50						
10	5x5.7 6.3x5.7	3.0 1.5	50 80	6.3x5.7 6.3x7.7	3.0 2.4	40 60	6.3x7.7	2.4	60
22	6.3x5.7 6.3x7.7	1.5 1.2	80 120	6.3x7.7 8x10.5	2.4 1.5	60 110	8x10.5	1.5	110
33	6.3x7.7 8x10.5	1.2 0.7	120 250	8x10.5	1.5	110	8x10.5 10x10.5	1.5 0.8	110 170
47	8x10.5	0.65	250	8x10.5	1.5	110	10x10.5	0.8	170
56	8x10.5	0.65	250	8x10.5	1.5	110	10x10.5	0.8	170
68	8x10.5	0.65	250	10x10.5	0.8	170	10x10.5	0.8	170
82	8x10.5 10x10.5	0.65 0.35	250 400	10x10.5	0.8	170			
100	10x10.5	0.35	400	10x10.5	0.8	170			
150	10x10.5	0.35	400						

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105℃, 100KHz.
Note2: Produce custom product too, which are not found in these tables.