

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	基板自立型牛角铝电解电容器 Snap-in Aluminum Electrolytic Capacitors
客 户 料 号 Customer P/N	
科 尼 盛 料 号 KNSCHA P/N	LLX100M108Q25CS1AA(203EC1266)
型 号 规 格 Product Type	100V/1000 μ F 2000Hours@105插件,22xL25mm PET紫色银字
日 期 Date	2024年10月17日

制 造 Manufacture	
核 准 APPROVAL	制 作 PREPARED
王 勃	刘 国 栋

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

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KNSCHA ELECTRONICS CO., LIMITED

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Aluminum Electrolytic Capacitors

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



Film Capacitors

- Source Manufacturer
- 10+ Years Experience



c **UL** [®] US

EN ¹⁰

DE

CQC

CCC

TÜV

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KNSCHA ELECTRONICS CO., LIMITED is a manufacturing high-tech enterprise founded in 1987 with aluminum electrolytic capacitors and film capacitors as its core for automotive, renewable energy, industrial and consumer electronics. We are working on developing aluminum electrolytic capacitors and plastic film capacitors having higher performance and higher reliability and its product chain extends to multiple categories such as electric double layer capacitors, ceramic capacitors and resistors under the trademark "KNSCHA", quickly responding to customer needs.

KNSCHA's manufacturing facilities are located in Guangdong, Hunan and Jiangxi and employ over 380 peoples. Our state-of-art manufacturing facilities including R&D, testing labs, automated manufacturing, warehousing and customer service are operate with high quality standard, using Lean manufacturing processes with a comprehensive ISO 9001/14001 and IATF 16949 management systems.

Our products have obtained UL, VDE, TÜV, ENEC10, KTL, and CQC safety certification, and comply with SGS's RoHS, Reach, AECQ-200 and National Grid Testing standards.

As a supporter of this advanced electronic industry, we are very pleased to have contributed to its development.

Plastic Film Capacitors Aluminum Electrolytic Capacitors



KNSCHA has knowledge and know-how as a capacitor professional manufacturer.
We are always comitted to the original performance our customers need.
We solves problems together with our customers.

KNSCHA

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+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

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特性/ Features

- 85℃ standard series for general purposes
- Load Life:2000 hours at 85℃
- RoHS compliant
- 一般用途品
- 85℃负荷寿命 2000小时
- 符合RoHS指令

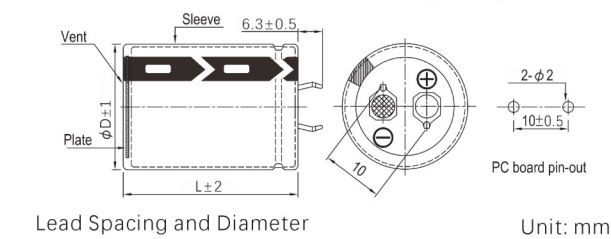


基板自立Snap-in

表1 规格表 Specifications

项目 Items	性 能 Performance															
工作温度范围 Category Temperature Range	16~100V								160~450V							
	-40℃~+85℃								-25℃~+85℃							
额定静电容量容许误差值 Capacitance Tolerance	± 20% (120 Hz, 20℃)															
漏电流 Leakage Current(at 20℃)	测试时间 Time	2 分钟后 after 2 minutes							5 分钟后 after 2 minutes							
	漏电流 Leakage Current	I ≤ 0.03CV or 3(mA/毫安) 之中任一个较小值以下whichever is smaller							I ≤ 3√CV or 0.94 (mA/毫安) 之中任一个较小值以下whichever is smaller							
	I = 漏电流(μA/微安)、C = 额定静电容量(μF/微法拉)、V = 额定直流工作电压(V/伏特) Where,C = rated capacitance in μF,V = rated DC working voltage in V															
损失角正切值 Tanδ (at 120 Hz, 20℃)	额定电压 Rated Voltage	16	25	35	50	63	71	80	100	160	200	250	400	420	450	
	损失角正切值 Tanδ (max)	0.40	0.45	0.40	0.30	0.20	0.20	0.20	0.20	0.15	0.15	0.15	0.25	0.25	0.25	
温度特性(120 Hz) Low Temperature Characteristics	阻抗比不可大于下表所列数值 Impedance ratio shall not exceed the values given in the table below.															
	额定电压 Rated Voltage	16	25	35	50	63	71	80	100	160	200	250	400	420	450	
	阻抗比 Impedance Ratio	Z(-25℃)/Z(+20℃)	4	3	3	2	2	2	2	2	4	4	4	8	8	8
		Z(-40℃)/Z(+20℃)	15	15	10	8	6	6	5	5						
耐久性 Endurance	保证寿命时间 Test Time	2,000 hours														
	静电容量变化率 Capacitance Change	≤ 初始值的± 20% Within ±20% of initial value														
	损失角正切值 Tanδ	≤ 初始规格值的200% Less than 200% of specified value														
	漏电流 Leakage Current	≤ 初始规格值 Within specified value														
	*于 85℃环境中供给容许纹波电流值与额定电压 2,000 小时后，待制品回复至 20℃的环境中进行量测时，需满足上列要求。 *The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 2,000 hours at 85℃.															
高温无负荷特性 Shelf Life Test	保证寿命时间 Test Time	1,000 hours														
	静电容量变化率 Capacitance Change	≤ 初始值的± 20% Within ±20% of initial value														
	损失角正切值 Tanδ	≤ 初始规格值的200% Less than 200% of specified value														
	漏电流 Leakage Current	≤ 初始规格值 Within specified value														
	*于 85℃环境中不供给额定电压 1,000 小时后，待制品回复至 20℃的环境中进行量测时，需满足上列要求。 *The above specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 85℃ without voltage applied.															

表2 外形尺寸 Dimensions(mm)



ΦD±1	22,25,4						30,35					
L±2	25	30	35	40	45	50	30	35	40	45	50	

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

Freq.(Hz)		60	120	500	1K	100K
Rated Volt.(Vdc)	Coefficient	≤100	0.8	1.00	1.2	1.2
		≥160	0.8	1.00	1.2	1.3

■表4 标准品一览表 Standard Size

Dimension and Permissible Ripple Current

Dimension: $\phi D \times L$ (mm)
Ripple Current: mA/rms at 120 Hz, 105°C

Rated Volt.(Vdc)	16		25		35		50		63		71		80	
Surge Volt.(Vdc)	20		32		44		63		79		89		100	
Item Cap.(μ F)	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.
1000													22x25	1560
2200							22x25	1930	22x30	2350	22x40	1595	22x40	2530
3300							22x30	2410	22x40	2690	22x45	2072	25.4x40	3250
4700					22x30	2460	22x40	3010	25.4x40	3370	25.4x50	2779	30x40	4150
6800			22x30	2560	22x40	2890	25.4x40	3870	25.4x50	4410	30x45	3008	30x50	5180
8200			22x35	2810	22x45	3470	25.4x45	4370	30x45	4900	35x45	3568	35x45	5830
10000	22x25	2850	22x40	3160	25.4x40	3590	30x40	5020	30x50	5490				
12000	22x30	3200	22x40	3480	25.4x45	4010	35x40	5600	35x50	6300				
15000	22x35	3690	22x40	4000	30x40	4800	35x45	6440						
18000	22x40	3980	25.4x45	4660	30x45	5180	35x50	6710						
22000	22x50	4520												

制品尺寸与容许纹波电流一览表

尺寸: 直径(ϕD) $\times$ 长度(L), (毫米/mm)
容许纹波电流: 毫安/均方根值(mA/rms), 120 赫兹(Hz), 105°C

Dimension and Permissible Ripple Current

Dimension: $\phi D \times L$ (mm)
Ripple Current: mA/rms at 120 Hz, 105°C

Rated Volt.(Vdc)	100		160		200		250		400		420		450	
Surge Volt.(Vdc)	125		200		250		300		450		470		500	
Item Cap.(μ F)	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.	D $\times$ L	R. C.
47													22x25	147
68									22x25	710			22x25	680
82									22x25	800			22x30	820
100					22x25	360			22x30	940			22x35	840
120									22x30	1040	22x25	1040	22x35	1020
150					22x25	500			22x35	1180	22x30	1200	25.4x35	1190
180							22x25	1140	25.4x35	1370	22x35	1480	25.4x40	1330
220					22x25	600	22x25	1180	25.4x35	1560	22x35	1560	25.4x30	1270
									25.4x40		22x45	1270	30x35	1510
											22x40	1560		
270									30x35	1730	25x40	1560	30x40	1800
											30x40	1730		
330					22x25	1440	22x30	1580	30x40	1950	25x45	1950	30x30	1100
											30x40	1950	35x45	2020
390											30x45	1560	35x30	1292
470			22x30	1770	22x35	1880	25.4x35	2050	35x40	2390			35x45	2550
560	22x25	1280							35x45	2710				
680			22x40	2240	22x45	2190	25.4x40	2540	35x50	2950				
820					25.4x40	2660								
1000	22x30	2020	25.4x40	2860			30x45	3390						
2200	25.4x40	3200	35x45	4720										
3300	30x40	4050												
4700	30x50	5130												
6800	35x50	6010												

制品尺寸与容许纹波电流一览表

尺寸: 直径(ϕD) $\times$ 长度(L), (毫米/mm)
容许纹波电流: 毫安/均方根值(mA/rms), 120 赫兹(Hz), 105°C

■表5 产品编码说明 Part Numbering System

L	LX	250	M	108	S40	5	S1	A	A																										
电容器类别 Capacitors Name	系列名 Series Name	额定电压 Rated voltage	额定静电容量 容许误差值 Capacitance tolerance	额定静电容量 Capacitance	制品尺寸 Case size	PET套颜色管 PET Sleeve color	加工形状 Processing shape	电气特性 Electrical characteristics	内部特征码 Internal use																										
基板自立型铝电解电容器 Snap-in Aluminum Electrolytic Capacitors	KLX Series	范例Example: <table><tr><th>Voltage</th><th>Symbol</th></tr><tr><td>6.3V</td><td>6R3</td></tr><tr><td>10V</td><td>010</td></tr><tr><td>250V</td><td>250</td></tr></table>	Voltage	Symbol	6.3V	6R3	10V	010	250V	250	M=±20%	范例Example: <table><tr><th>Cap.</th><th>Symbol</th></tr><tr><td>0.1μF</td><td>104</td></tr><tr><td>2.2μF</td><td>225</td></tr><tr><td>33μF</td><td>336</td></tr><tr><td>470μF</td><td>477</td></tr><tr><td>6800μF</td><td>688</td></tr><tr><td>82000μF</td><td>829</td></tr></table>	Cap.	Symbol	0.1μF	104	2.2μF	225	33μF	336	470μF	477	6800μF	688	82000μF	829	范例Example: <table><tr><th>φDia. (mm)</th><th>Symbol</th></tr><tr><td>30x40</td><td>S40</td></tr></table>	φDia. (mm)	Symbol	30x40	S40	紫体银字 Purple body silver print			
Voltage	Symbol																																		
6.3V	6R3																																		
10V	010																																		
250V	250																																		
Cap.	Symbol																																		
0.1μF	104																																		
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φDia. (mm)	Symbol																																		
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△如需了解更详细介绍, 请联系我们
Note: For more details, please contact us
☎Sales@knscha.com