

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	LSK400M567T402S1AA(203EC1350)
型 号 规 格 Product Type	400V/560 μ F 5000Hours@105 $^{\circ}$ C 插件,35xL40mm PET咖啡银字
日 期 Date	2024年10月17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

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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

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

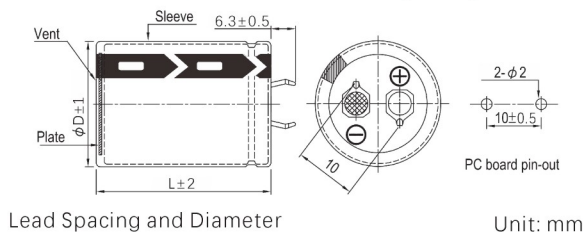
- Long Life
- Load Life: 5000 hours at 105°C
- RoHS compliant
- 长寿命品
- 105°C 负荷寿命 5000 小时
- 符合 RoHS 指令



■ 表1 规格表 Specifications

项目 Items	性 能 Performance															
工作温度范围 Category Temperature Range	16~500V															
	-25℃~+105℃															
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) 之中任一较小值以下 whichever is smaller							I ≤ 3√CV or 0.94 (mA/毫安) 之中任一较小值以下 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	80	100	200	220	250	400	420	450	500	
	损失角正切值 Tanδ (max)	0.50	0.45	0.40	0.35	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	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	80	100	200	220	250	400	420	450	500
	阻抗比 Impedance Ratio	Z(-25℃)/Z(+20℃)	4	3	3	2	2	2	2	4	4	4	8	8	8	8
耐久性 Endurance	保证寿命时间 Test Time		5,000 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 105℃环境中供给容许纹波电流值与额定电压 5,000 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 5,000 hours at 105℃.															
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 105℃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 105℃ 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 纹波电流与频率修正系数
Ripple Current and Frequency Multipliers

Freq.(Hz)		60	120	500	1K	10K
Rated Volt.(Vdc)						
Coefficient	16~100	0.9	1.00	1.05	1.10	1.15
	200~250	0.8	1.00	1.20	1.30	1.50
	400~500	0.8	1.00	1.20	1.25	1.40

■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		80		100											
Surge Volt.(Vdc)	20		32		44		63		79		100		125											
Item Cap.(µF)	D×L	R. C.	D×L	R. C.	D×L	R. C.	D×L	R. C.	D×L	R. C.	D×L	R. C.	D×L	R. C.										
560													22×25	1010										
680													22×30	1190										
820											22×25	1090	22×35	1330										
													25.4×25	1260										
1000									22×25	1100	22×30	1290	22×40	1560										
													25.4×30	1520										
													30×25	1470										
1200									22×25	1170	22×35	1480	22×45	1760										
											25.4×25	1320	25.4×35	1760										
1500									22×30	1410	22×40	1700	22×50	2000										
									25.4×25	1380	25.4×30	1740	25.4×40	2030										
1800							22×25	1280	22×35	1620	22×45	1910	25.4×45	2290										
									25.4×30	1630	25.4×35	1860	30×25	2190										
2200							22×30	1520	22×40	1850	25.4×45	2220	30×40	2520										
							25.4×25	1460	25.4×30	1750	30×30	2020	35×35	2480										
2500								30×25	1660															
2700							22×25	1770	22×45	2100	30×35	2500	30×45	2860										
							25.4×30	1760	25.4×35	2030	35×30	2180	35×40	2870										
3300					22×30	1540	22×40	2020	25.4×40	2330	30×40	2690	35×45	3250										
							25.4×30	1870	30×30	2150	35×35	2600												
30×25	1720																							
3900					22×35	1770			25.4×45	2580	30×45	2940	35×50	3560										
					25.4×25	1550			30×35	2460	35×40	3000												
4700			22×30	1550	22×40	2010	25.4×40	2430	30×40	2820	35×45	3440												
					25.4×30	1870	30×30	2220	35×35	2770														
5600			22×35	1770	22×45	2250	25.4×45	2720	30×45	3220	35×50	3720												
			25.4×25	1560	25.4×35	2180	30×35	2580	35×40	3200														
					30×25	1800	35×30	2350																
6800	22×30	1660	22×40	2020	22×50	2490	30×40	3010	35×45	3610														
			25.4×30	1880	25.4×40	2450	35×35	2910																
					30×30	2280																		
8200	22×30	1790	22×45	2270	25.4×45	2800	30×50	3630	35×50	3940														
	25.4×25	1670	25.4×35	2180	30×35	2690	35×40	3360																
10000	22×35	2080	22×50	2560			30×40	3040	35×45	3790														
				25.4×40	2530	35×30	2780																	
	25.4×30	2070	30×30	2380																				
12000	22×40	2360	25.4×45	2790	30×45	3380	35×50	4060																
	25.4×35	2370	30×35	2700																				
	30×25	2130	35×30	2760	35×35	3300																		
15000	22×45	2690	30×40	3130		35×40	3880																	
	25.4×40	2720	35×30	3000	35×45																			
	30×30	2540																						
18000	25.4×45	3060	30×45	3520	35×45	4400																		
	30×35	3020	35×35	3500																				
	35×30	3090																						
22000	25.4×50	3390	30×50	3920																				
	30×40	3460	35×40	3950																				
	35×30	3310																						
27000	30×45	3880	35×50	4720																				
	35×35	3850																						
33000	30×50	4330																						
	35×40	4330																						
39000	35×45	4960																						
47000	35×50	5490																						

制品尺寸与容许纹波电流一览表

尺寸: 直径(ϕD)×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)	200		220		250		400		420		450		500	
Surge Volt.(Vdc)	250		270		300		450		470		500		550	
Item Cap.(μF)	D×L	R. C.	D×L	R. C.	D×L	R. C.	D×L	R. C.	D×L	R. C.	D×L	R. C.	D×L	R. C.
47													22×25	440
56													22×30	510
68													22×30	560
													25.4×25	550
													22×35	680
82							22×25	640	22×25	610	22×25	600	25.4×30	640
													30×25	630
											22×30	730	22×40	770
100							22×30	740	22×30	740	25.4×25	720	25.4×35	740
													30×25	690
							22×30		22×35	860	22×35	840	22×50	870
120							25.4×25	790	25.4×25	750	25.4×30	870	25.4×35	810
													30×30	810
							22×35	920	22×40	980	22×40	970	25.4×45	970
150							25.4×30	950	25.4×30	900	25.4×30	890	30×35	960
											30×25	900	35×30	920
											35×35	900		
180							22×40	1050	22×45	1090	22×40	1080	25.4×50	1100
							25.4×35	1100	25.4×35	1050	25.4×35	1030	30×40	1070
							30×25	970	30×25	930	30×30	1080	35×30	1000
							22×50	1280	22×50	1210	25.4×40	1170	25×50	1100
220					22×25	970	25.4×35	1120	25.4×40	1190	30×30	1100	30×45	1220
							30×30	1170	30×30	1120				
							35×25	1100	35×25	1050	35×25	1040	35×40	1210
							25.4×45	1400	25.4×45	1340	25.4×50	1430		
270	22×25	1090	22×25	1040	22×30	1180	30×35	1360	30×35	1300	30×30	1100	35×40	1320
							35×30	1330	35×30	1270	30×35	1280		
											35×30	1250		
							25.4×45	1480	30×40	1470	30×45	1450		
330	22×30	1310	22×30	1260	22×35	1370	25.4×50	1550					35×45	1500
					25.4×25	1140	30×35	1430	35×35	1450	35×35	1430		
							30×40	1550						
							35×30	1350						
390	22×30	1320	22×35	1470					30×45	1640	30×50	1750	35×55	1730
			25×25	1210					35×40	1680	35×40	1660		
470	22×35		22×40	1640	22×45	1740	30×50	1890	30×50	1810				
	25.4×30	1540	25×30	1470	25.4×35	1610	35×40	1780	35×40	1710	35×45	1850		
					30×25	1340								
560	22×40	1750	22×45	1860	22×50	1920								
			25×35	1710	25.4×40	1830	35×45	1980	35×50	2070	35×50	2040		
	25.4×30	1540	30×25	1410	30×30	1630								
					35×25	1480								
680	22×45	1960	22×50	2050	25.4×45	2040								
	25.4×35	1790	25.4×40	1940	30×35	1900	35×50	2190						
			30×30	1710										
	30×25	1460	35×25	1540	35×30	1800								
820	22×50	2150	25.4×45	2160	25.4×50	2240								
	25.4×40	2030	30×35	1990	30×40	2150								
	30×30	1770												
	35×25	1590	35×30	1890	35×30	1810								
1000	25.4×45	2260	25.4×50	2370	30×45	2390								
	30×35	2060	30×40	2260										
	35×30	1930	35×35	2150	35×35	2380								
1200	30×40	2340	30×45	2510	30×50	2620								
	35×35	2220	35×40	2480	35×40	2390								
1500	30×45	2600	30×50	2750										
	35×40	2560	35×40	2500	30×50	2920								
1800	35×45	2850	35×50	3040										
2200	35×50	3140												

制品尺寸与容许纹波电流一览表

尺寸: 直径(ϕD)×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	SK	200	M	687	R35	4	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																								
KSK Series		范例Example:	M=±20%	范例Example:	范例Example:	咖啡体银字 Coffee body silver print																											
		<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	<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	<table><tr><th>Dim.(mm)</th><th>Symbol</th></tr><tr><td>25x35</td><td>R35</td></tr></table>	Dim.(mm)	Symbol	25x35	R35	
		Voltage		Symbol																													
		6.3V		6R3																													
10V	010																																
250V	250																																
Cap.	Symbol																																
0.1μF	104																																
2.2μF	225																																
33μF	336																																
470μF	477																																
6800μF	688																																
82000μF	829																																
Dim.(mm)	Symbol																																
25x35	R35																																

△如需了解更详细之介绍，请联系我们
Note:For more details ,please contact us
☎Sales@knscha.com