

**CK** 宽温品 片式铝电解电容  
Chip Type Aluminum Electrolytic Capacitors



**产品特点 Features**

适用-55℃~+105℃温度范围, 寿命2,000小时; 性能稳定, 可靠性高; 产品直径: φ 4mm~ φ 16.5mm  
-55℃~+105℃ temperature range, life 2000 hours; stable performance, high reliability  
The diameter of the product: φ 4mm~ φ 12.5mm

**主要技术性能 Specifications**

项目 Items	特性 Characteristics									
工作温度范围 Category Temperature Range	-55℃~+105℃									
额定电压范围 Rated Voltage Range	4~100V.DC									
标称电容量范围 Nominal Capacitance Range	1μF ~ 2200 μF									
标称电容量允许偏差 Nominal Capacitance Tolerance	± 20%(120Hz,+20 °C)									
泄漏电流范围 Leakage Current(MAX)	I=0.01CV( μ A) or 3 ( μ A) after 2 minutes I=Leakage Current( μ A) C=Nominal Capacitance( μ F) V=Roted Voltage(V)									
损耗角正切值 Dissipation Factor(MAX) Tan δ (20℃,120Hz)	Rated Voltage(V)	4	6.3	10	16	25	35	50	63	100
	Tan δ	0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14
耐久性 Load Life	+105℃施加额定工作电压2000H后, 放置16H, 电容器应满足以下要求。 After applying rated voltage with max ripple current for 2000hrs at 105℃,and then resumed 16 hours, the capacitors shall meet the following requirements									
	Capacitance Change	± 30%初始值以内			Within ± 30% of the initial value					
	Dissipation Factor	≤ 200%初始值以内			Not more than 200% of the specified value					
	Leakage Current	≤ 初始规定值			Not more than the specified value					
高温贮存 Shelf Life	+105℃, 贮存1000H后, 放置16H, 电容器应满足以下要求。 After storage for 1000hrs at 105℃, then resumed 16 hours, the capacitors shall meet the following requirements									
	Capacitance Change	± 30%初始值以内			Within ± 30% of the initial value					
	Dissipation Factor	≤ 200%初始值以内			Not more than 200% of the specified value					
	Leakage Current	≤ 300%初始值以内			Within 300% of initial specified value					
耐焊接热 Resistance to Soldering Heat	在250℃的条件下, 电容器在热板上保持30秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求。 The capacitors shall be kept on then hot plate maintained at 250℃ for 30 seconds.After removing from the hot plate and restored at room temperature, they meet the following requirement:									
	Capacitance Change	± 10%初始值以内			Within ± 10% of the initial value					
	Dissipation Factor	≤ 初始规定值			Not more than the initial specified value					
	Leakage Current	≤ 初始规定值			Not more than the initial specified value					
低温特性及阻抗比 Low Temperature Stability Impedance Ratio (MAX) 120Hz	Roted Voltage (V)	4	6.3	10	16	25	35	50	63	100
	Z-25℃/Z+20℃ (120Hz)	< Φ8	7	4	3	2	2	2	2	2
		≥ Φ8	7	5	4	3	2	2	2	2
	Z-40℃/Z+20℃ (120Hz)	< Φ8	15	8	8	4	4	3	3	3
		≥ Φ8	15	10	8	6	4	3	3	3

■ 尺寸图 Dimensions

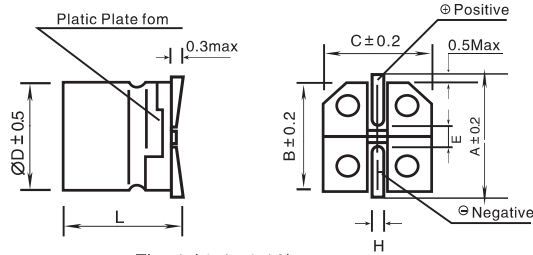


Fig. 1 (Φ4~Φ10)

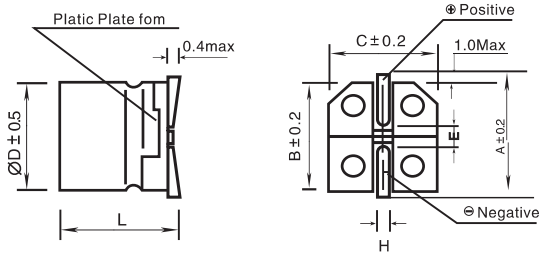


Fig. 2 (≥Φ16.5)

单位: mm

ΦD	L	A	B	C	E	H	Fig.No.
4	5.4 ± 0.3	5.0	4.3	4.3	1.0	0.5~0.9	1
5	5.4 ± 0.3	6.0	5.3	5.3	1.5	0.5~0.9	1
6.3	5.4 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
6.3	7.7 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
8	6.5 ± 0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
8	10.2 ± 0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
10	10.2 ± 0.5	11.1	10.3	10.3	4.5	0.8~1.1	1
12.5	13.5 ± 0.5	13.7	13.0	13.0	4.4	1.0~1.4	2
16	16.5 ± 0.5	16.7	17	17	6.7	1.0~1.4	2

■ 标准品一览表 Standard Size

V	6.3		10		16		25		35		50		63		100	
μF	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA
1											4×5.4	8.0	4×5.4	7.2	4×5.4	7.2
2.2											4×5.4	12	4×5.4	12	6.3×5.4	15
3.3									4×5.4	14	4×5.4	14	5×5.4	14	6.3×5.4	
4.7							4×5.4	14	4×5.4	15	4×5.4	14	5×5.4	17	6.3×5.4	23
											5×5.4	17	6.3×5.4	22	6.3×7.7	38
10					4×5.4		4×5.4	15	4×5.4	15	5×5.4	23	6.3×5.4	41		
							5×5.4	21	5×5.4	22	6.3×5.4	25	6.3×7.7	26	6.3×7.7	38
22	4×5.4	22	4×5.4	21	4×5.4	21	5×5.4	26	5×5.4	30			6.3×5.4	43	6.3×7.7	53
			5×5.4	26	5×5.4	28	6.3×5.4	37	6.3×5.4	40			8×6.5	80	8×10.2	90
33	4×5.4	23	4×5.4	23			5×5.4	30	6.3×5.4	45						
	5×5.4	28	5×5.4	34	5×5.4	29	6.3×5.4	45	8×6.5	86	6.3×7.7	63	8×10.2	116	10×10.2	136
47	4×5.4	26	4×5.4	27	5×5.4	33	5×5.4	30			6.3×5.4	54	6.3×7.7	66	8×10.2	125
							6.3×5.4	49	6.3×5.4	54			8×10.2	125	10×10.2	148
	5×5.4	34	5×5.4	31	6.3×5.4	48	8×6.5	93	6.3×7.7	75	8×10.2	120	10×10.2	168		
100	5×5.4	40	5×5.4	40	6.3×5.4	63	6.3×5.4	49	6.3×5.4	45						
	6.3×5.4	52	6.3×5.4	55	6.3×7.7	72	6.3×7.7	93	8×10.2	125	8×10.2	146	10×10.2	200	2.5×13.5	276
150	6.3×5.4	70	6.3×5.4	78	6.3×7.7	116	8×10.2	210	8×10.2	210	8×10.2	238	12.5×13.5	330		
	6.3×5.4	69	6.3×5.4	78	6.3×7.7	110	6.3×7.7	93	8×10.2	195						
220	6.3×7.7	108	6.3×7.7	110			8×6.5	110	8×10.2	183	10×10.2	230	10×10.2	230	12.5×13.5	380
	6.3×7.7	108	8×6.5	110												
330	6.3×7.7	108	6.3×7.7	134			8×10.2	201	8×10.2	228	10×10.2	247	10×10.2	230		
			8×10.2	108									12.5×13.5	360	16×21.5	9000
470	6.3×7.7	125	6.3×7.7	160	8×10.2	240	8×10.2	228								
	8×10.2	214	8×10.2	214	10×10.2	300	10×10.2	286	10×10.2	286	12.5×13.5	360	16×16.5	750		
680	8×10.2	214	10×10.2	277	10×10.2	322	10×13.5	400	10×13.5	400						
							12.5×13.5	440	12.5×13.5	440						
1000	8×10.2	235	8×10.2	230												
	10×10.2	310	10×10.2	320	10×10.2	347	12.5×13.5	500			16×16.5	1050				
1500	10×10.2	320	10×12.5	480	12.5×13.5	540										
			12.5×13.5	540												
2200	12.5×13.5	600	12.5×13.5	600												

mA额定纹波电流 Rated ripple current(mA, 105°C, 120Hz)

■ 纹波电流修正系数/频率系数 Multiplier For Ripple Current / Frequency coefficient

频率 Frequency	50Hz	120Hz	300Hz	1kHz	≥10kHz
系数 Coefficient	0.70	1.00	1.17	1.36	1.50

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