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：ϕ4mm~ϕ16.5mm
–55℃~+105℃ temperature range, life 2000 hours; stable performance, high reliability
The diameter of the product: ϕ4mm~ϕ12.5mm

■ 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 NominalCapacitance Range	1μF ~ 2200μF
标称电容量允许偏差 NominalCapacitance Tolerance	± 20%(120Hz,+20 ℃)
泄漏电流范围 Leakage Current(MAX)	I=0.01CV(μA) or 3 (μA) after 2 minutes I=Leakage Current(μA) C=Nominal Capacitance(μF) V=Roted Voltage(V)
损耗角正切值 Dissipation Factor(MAX) Tan δ (20℃,120Hz)	见下表
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
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
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:
低温特性及阻抗比 Low Temperature Stability Impedance Ratio (MAX) 120Hz	见下表

Rated Voltage(V)	4	6.3	10	16	25	35	50	63	100
Tanδ	0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14

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

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

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					

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	2
	≥Φ8	7	5	4	3	2	2	2	2	2
Z–40℃/Z+20℃ (120Hz)	<Φ8	15	8	8	4	4	3	3	3	3
	≥Φ8	15	10	8	6	4	3	3	3	3

■ 尺寸图 Dimensions

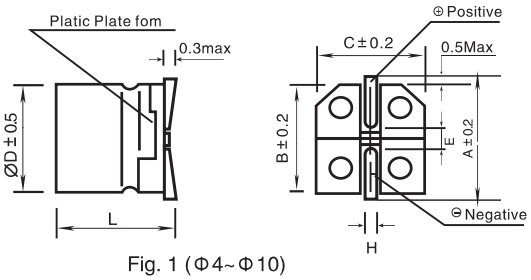


Fig. 1 (Φ4~Φ10)

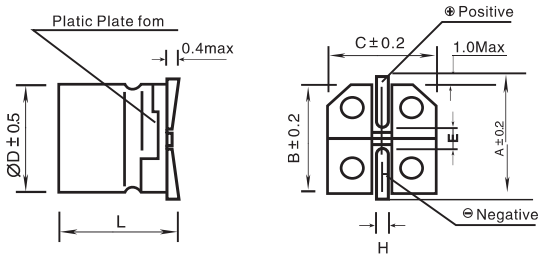


Fig. 2 (≥Φ16.5)

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	6.3×7.7	38
							5×5.4	21	5×5.4	22	6.3×5.4	25	6.3×7.7	26		
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	8×10.2	90
			5×5.4	26	5×5.4	28	6.3×5.4	37	6.3×5.4	40			8×6.5	80		
33	4×5.4	23	4×5.4	23	5×5.4	29	5×5.4	30	6.3×5.4	45	6.3×7.7	63	8×10.2	116	10×10.2	136
	5×5.4	28	5×5.4	34			6.3×5.4	45	8×6.5	86						
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	10×10.2	148
							6.3×5.4	49								
	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	8×10.2	146	10×10.2	200	12.5×13.5	276
							8×6.5	93	6.3×7.7	87						
	6.3×5.4	52	6.3×5.4	55	6.3×7.7	72	6.3×7.7	93	8×10.2	125	10×10.2	178				
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		
220	6.3×5.4	69	6.3×5.4	78	6.3×7.7	110	6.3×7.7	93	8×10.2	195	10×10.2	230	12.5×13.5	380		
	6.3×7.7	108	6.3×7.7	110	8×6.5	110	8×10.2	183	10×10.2	230						
			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			16×21.5	9000
			8×10.2	108							12.5×13.5	360				
470	6.3×7.7	125	6.3×7.7	160	8×10.2	240	8×10.2	228	10×10.2	286	12.5×13.5	360	16×16.5	750		
	8×10.2	214	8×10.2	214	10×10.2	300	10×10.2	286								
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	347	12.5×13.5	500			16×16.5	1050				
	10×10.2	310	10×10.2	320												
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℃, 120Hz)

■ 纹波电流补正系数 /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

注：以上所提供的设计及特性参数仅供参考，任何修改不做预先通知，如在使用上有疑问，请在采购前与我们联络，以便提供技术上的协助。

Note: all designs and specifications are for reference only and are subject to change without prior notice, if any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

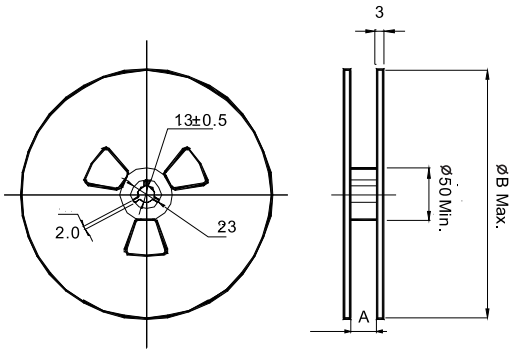
产品编码解析 Explanation of Part Number



Series **Rated Voltage** **Capacitance** **Tol.** **Case Size**

Series	R.W Voltage (V)	Code	Capacitance (μ F)	Code	Cap.Tol	Code	Case Size	Code
CK	4	0G	0.1	0R1	± 5	J	4*5.4	0405
VT	6.3	0J	0.22	R22	± 10	K	5*5.4	0505
RVT	10	1A	0.33	R33	± 15	L	6.3*5.4	0605
RVE	16	1C	0.47	R47	± 20	M	6.3*7.7	0607
US	25	1E	1	1R0	± 30	N	6.3*10. 2	0610
UZ	35	1V	1.5	1R5	+ 20 - 10	V	8*6.5	0806
UN	50	1H	2.2	2R2	+ 20 - 5	H	8*10.2	0810
UH	63	1J	3.3	3R3	+ 10 - 20	C	8*12. 5	0812
UL	80	1K	4.7	4R7	+ 100 - 0	P	10*10.2	1010
UV	100	2A	5.6	5R6	+ 30 - 10	Q	10*12.5	1012
UD	160	2C	6.8	6R8	+ 20 - 0	R	10*13.5	1013
UW	200	2D	8.2	8R2	+ 50 - 10	T	12.5*13.5	1213
SF	250	2E	10	100	+ 75 - 10	U	12.5*16	1216
SH	350	2V	12	120	+ 40 - 20	X	16*16.5	1616
SL	400	2G	15	150	+ 50 - 20	S	16*21.5	1621
SR	450	2W	22	220	+ 80 - 20	Z	18*16.5	1816
SS	500	2H	33	330			18*21.5	1821
ST			47	470			20*16.5	2016
SU			56	560			20*21.5	2021
HS			68	680				
			100	101				
			220	221				
			330	331				
			470	471				
			560	561				
			680	681				
			820	821				
			1000	102				
			1500	152				
			2200	222				
			3300	332				
			4700	472				
			6800	682				

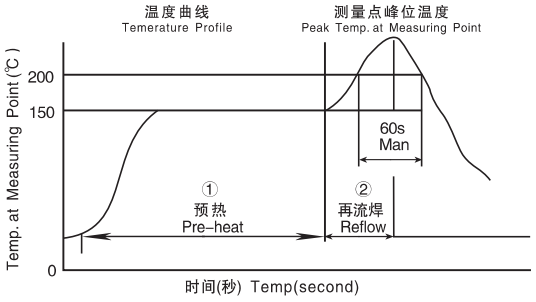
卷 筒 Taping Reel And Packing Quantity



规格 Specification	卷装数量 Quantity/Reel	盒装数量 Quantity/Bag	A ± 0.3 (MM)	B ± 2 (MM)
Φ4*5.4	2000 pcs	20000 pcs	14	382
Φ5*5.4	1000 pcs	10000 pcs	14	382
Φ6.3*5.4	1000 pcs	10000 pcs	18	382
Φ6.3*7.7	1000 pcs	10000 pcs	18	382
Φ6.3*10.2	700 pcs	7000 pcs	18	382
Φ8*6.5	1000 pcs	10000 pcs	18	382
Φ8*10.2	500 pcs	5000 pcs	26	382
Φ8*12.5	400 pcs	4000 pcs	26	382
Φ10*10.2	500 pcs	5000 pcs	26	382
Φ10*12.5	400 pcs	4000 pcs	26	382
Φ10*13.5	300 pcs	3000 pcs	26	382
Φ12.5*13.5	200 pcs	1600 pcs	34	382
Φ12.5*16	200 pcs	1600 pcs	34	382
Φ16*16.5	125 pcs	250 pcs	46	332
Φ16*21.5	75 pcs	150 pcs	46	332
Φ18*16.5	125 pcs	250 pcs	46	332
Φ18*21.5	75 pcs	150 pcs	46	332
Φ20*16.5	100 pcs	200 pcs	46	332
Φ20*21.5	50 pcs	100 pcs	46	332

焊接方法和再流焊允许范围Soldering method and allowable range of the reflow

焊接方式 Soldering Method	再流焊的允许范围 Allowable Range of Reflow
热板再流焊 Hot-Plate Reflow	电容器端面上峰值温度 Peak temp.at capacitor Terminal(℃) 240 220 200 0 20 40 60 再流焊时间(秒) Reflow time(second)
红外线再流焊 Infrared-Ray Reflow	电容器端面上峰值温度 Peak temp.at capacitor Terminal(℃) 230 220 200 0 20 40 60 再流焊时间(秒) Reflow time(second)



Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

HONORCAP:

GVT2A220M0607 HF1E477M1012PC HS0Q337M0508PC HT0J827M0609PC HT1E128M1016PC
RVT1H1R0M0405 RVT1H2R2M0405 UV2E100M1010 HF1E567M0615PC HG1V107M0607PC
HS0J477M0508PC HF1C108M0615PC HT1B337M0509PC HV1J226M0607PZ HG1V827M1016PC
HT1C158M0816PC HV1V476M0605PZ RVT1HR47M0405 HG1H227M1016PC HT1C228M1016PC
RVE1E100M0405 RVE1H100M0605 RVT1H220M0605 RVT1A101M0605 RVT1C470M0605
RVT1J4R7M0505 HF1E107M0811PC RVE1V221M1010 RVT1C221M0607 RVT1H331M1010