



## UT 片式铝电解电容

### UT Chip Type Aluminum Electrolytic Capacitors

### 产品特点 Features

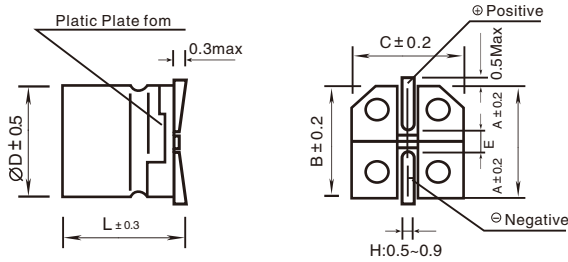
- 产品直径 Case diameter  $\Phi$  4mm~  $\Phi$  10mm
- 性能稳定, 可靠性高 High stability and reliability
- 适用于再回流焊 Reflow soldering is available
- ROHS 指令已对应完毕 Adapted to the RoHS directive
- 适用于高密度表面组装 Available for high density surface mounting
- 寿命105°C 2000 小时标准品 Life time 105°C 2000hrs standard product

### 主要技术性能 Specifications

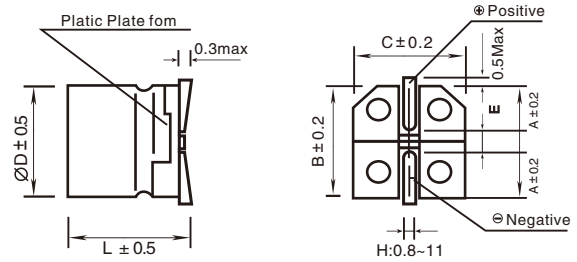
项目 Items	特性 Characteristics									
工作温度范围 Category Temperature Range	-55°C~+105°C									
额定电压范围 Rated Voltage Range	4~100V.DC									
标称电容量范围 Nominal Capacitance Range	0.47 $\mu$ F ~ 1500 $\mu$ F									
标称电容量允许偏差 Nominal Capacitance Tolerance	$\pm$ 20%(120Hz,+20 °C)									
泄漏电流范围 Leakage Current(MAX)	I=0.01CV( $\mu$ A) or 3 ( $\mu$ A) after 2 minutes I=Leakage Current( $\mu$ A)    C=Nominal Capacitance( $\mu$ F)    V=Rated Voltage(V)									
损耗角正切值 Dissipation Factor(MAX) Tan $\delta$ (20°C,120Hz)	Rated Voltage(V)	4	6.3	10	16	25	35	50	63	100
	Tan $\delta$	0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14
耐久性 Load Life	+105°C 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°C, and then resumed 16 hours, the capacitors shall meet the following requirements									
	Capacitance Change	$\pm$ 30%初始值以内			Within $\pm$ 30% of the initial value					
	Dissipation Factor	$\leq$ 200%初始值以内			Not more than 200% of the specified value					
	Leakage Current	$\leq$ 初始规定值			Not more than the specified value					
高温贮存 Shelf Life	+105°C, 贮存1000H后, 放置16H, 电容器应满足以下要求。 After storage for 1000hrs at 105°C, then resumed 16 hours, the capacitors shall meet the following requirements									
	Capacitance Change	$\pm$ 30%初始值以内			Within $\pm$ 30% of the initial value					
	Dissipation Factor	$\leq$ 200%初始值以内			Not more than 200% of the specified value					
	Leakage Current	$\leq$ 300%初始值以内			Within 300% of initial specified value					
耐焊接热 Resistance to Soldering Heat	在250°C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°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement:									
	Capacitance Change	$\pm$ 10%初始值以内			Within $\pm$ 10% of the initial value					
	Dissipation Factor	$\leq$ 初始规定值			Not more than the initial specified value					
	Leakage Current	$\leq$ 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	Rated Voltage (V)	4	6.3	10	16	25	35	50	63	100
	Z-25°C/Z+20°C (120Hz)	< $\Phi$ 8	7	4	3	2	2	2	2	2
		$\geq$ $\Phi$ 8	7	5	4	3	2	2	2	2
	Z-40°C/Z+20°C (120Hz)	< $\Phi$ 8	15	8	8	4	4	3	3	3
		$\geq$ $\Phi$ 8	15	10	8	6	4	3	3	3
其它 Other	IEC 60384 JIS-C5101									

### 尺寸图 Dimensions

(Φ4~Φ6.3)



(Φ8~Φ10)



单位: mm

Size	Φ4×5.4	Φ5×5.4	Φ6.3×5.4	Φ6.3×7.7	Φ8×6.5	Φ8×10.2	Φ10×10.2
A	1.8	2.1	2.4	2.4	2.9	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1(2.2)	3.1	4.5
L	5.4	5.4	5.4	7.7	6.5	10.2	10.2
H	0.5 ~ 0.9					0.8 ~ 1.1	

### 标准品一览表 Standard Size

V	6.3		10		16		25		35		50		63		100	
	μF	D×Lmm	μF	D×Lmm	μF	D×Lmm	μF	D×Lmm	μF	D×Lmm	μF	D×Lmm	μF	D×Lmm	μF	D×Lmm
0.47											4×5.4	4.0	4×5.4	3.7		
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	22
4.7							4×5.4	14	4×5.4	15	4×5.4	14	5×5.4	17	6.3×5.4	23
10					4×5.4	17	4×5.4	15	4×5.4	15	5×5.4	23	6.3×7.7	41	8×10.2	80
							5×5.4	21	5×5.4	22	6.3×5.4	25	6.3×5.4	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	6.3×7.7	52	8×10.2	100	10×10.2	129
			5×5.4	26	5×5.4	28	6.3×5.4	37	6.3×5.4	40	6.3×5.4	43	6.3×7.7	53	8×10.2	90
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	6.3×5.4	45	8×6.5	86						
47	4×5.4	26	5×5.4	31	5×5.4	33	6.3×5.4	49	6.3×5.4	54	8×10.2	125	10×10.2	168	10×10.2	148
	5×5.4	34	6.3×5.4	42	6.3×5.4	48	8×6.5	93	6.3×7.7	75	6.3×7.7	66	8×10.2	125		
100	5×5.4	40	5×5.4	40	6.3×5.4	63	6.3×7.7	93	6.3×7.7	87	8×10.2	146	10×10.2	200		
	6.3×5.4	52	6.3×5.4	55	8×6.5	125	6.3×7.7	93	8×10.2	125	10×10.2	178				
150	6.3×5.4	56	6.3×5.4	65	6.3×7.7	100	8×10.2	148	8×10.2	158	10×10.2	178				
220	6.3×5.4	69	6.3×7.7	110	6.3×7.7	110	8×10.2	183	8×10.2	195	10×10.2	230				
	6.3×7.7	108	8×6.5	110	8×6.5	110			10×10.2	230						
330	6.3×7.7	108	8×10.2	108	8×10.2	201	8×10.2	228	10×10.2	247						
							10×10.2	248								
470	6.3×7.7	125	8×10.2	214	8×10.2	240	10×10.2	286	10×10.2	286						
	8×10.2	214	10×10.2	266	10×10.2	300										
680	8×10.2	214	10×10.2	277	10×10.2	322										
1000	8×10.2	235	10×10.2	320	10×10.2	347										
	10×10.2	310														
1500	10×10.2	320														

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

### 纹波电流修正系数 Multiplier For Ripple Current

#### ● 频率系数 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系, 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.