



# EV

## 导电性高分子固体铝电解电容器（高电压）-贴片型

### Conductive polymer solid aluminum electrolytic capacitor (High voltage)- SMD type

#### 特点 Features

- 保证105°C 2000小时。Endurance: 2000 h at 105°C.
- 额定电压范围：10~100V DC。Rated Voltage Range:10~100V DC.
- 表面安装、耐清洗。Surface mounting, Resistance to clean.
- 满足RoHS要求。RoHS Compliant and lead-free.
- 满足无卤要求。Halogen Free compliant.



#### 主要技术性能 Specifications

项目 Items	特性 Characteristics		
工作温度范围 Operating Temperature Range	-55~+105°C		
额定电压范围 Rated Voltage Range	10~100V DC		
标称容量范围 Nominal Capacitance Range	10~1500μF		
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (20°C, 120Hz)		
漏电流 Leakage Current	≤0.1CV(μA) 20°C, 2分钟 at 20°C, after 2 minutes C: 静电容量(μF), V: 额定电压(VDC)		
损耗角正切 (tgδ) Dissipation Factor (Max)	20°C, 120Hz	额定电压(Vdc)	10~25V      35~100V Tgδ      0.14      0.10
等效串联电阻 ESR	参照规格表 Reference parameter table (mΩ at 100k~300kHz 20°C max)		
耐久性 Load Life	+105°C施加额定电压2000小时后，待温度恢复到20°C后进行测试，电容器应满足以下要求： After 2000 hours' application of rated voltage at 105°C, and then being stabilized at +20°C, the capacitors shall meet the following requirement:		
	容量变化率 Capacitance Change	±20%初始值以内 Within ±20% of the initial value	
	损耗角正切 Dissipation Factor	≤ 150%初始规定值 Not to exceed 150% of the value specified	
	阻抗 Equivalent Series Resistance	≤ 150%初始规定值 Not to exceed 150% of the value specified	
	漏电流 Leakage Current	≤ 初始规定值 Not to exceed the value specified	
高温贮存 Shelf Life Test	在105°C±2°C环境中，无负荷放置1000H后，待温度恢复到20°C后进行测试，电容器应满足以下要求： After storage for 1000 hours at +105°C±2°C with no voltage applied and then being stabilized at +20°C, the capacitors shall not exceed the specified values listed below:		
	容量变化率 Capacitance Change	±20%初始值以内 Within ±20% of the initial value	
	损耗角正切 Dissipation Factor	≤ 150%初始规定值 Not to exceed 150% of the value specified	
	阻抗 Equivalent Series Resistance	≤ 150%初始规定值 Not to exceed 150% of the value specified	
	漏电流 Leakage Current	≤ 初始规定值 Not to exceed the value specified	

※ 当产生疑问的时候，用以下电压处理后测定。

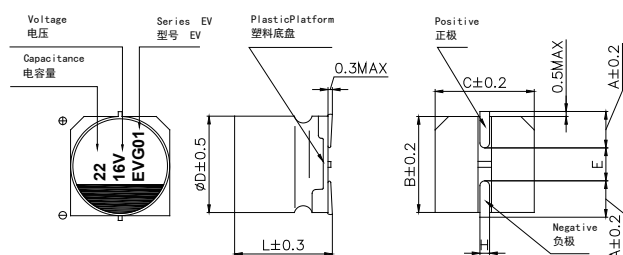
电压处理: 125°C下，连续加载120 分钟的电压。加载电压为额定电压。

When in doubt, apply the following voltage treatment and measure.

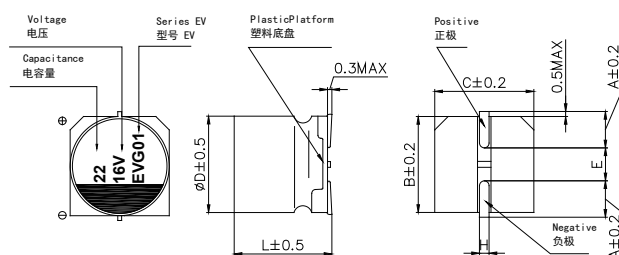
Voltage processing: under the condition of 125 °C ambient temperature, continuous load voltage of 120 minutes. Load voltage is rated voltage.

## 尺寸图 Dimensions

Φ5 ~ Φ6.3



Φ8 ~ Φ10



## 尺寸表 Size List

单位 Unit: mm

	Φ6.3×7.7	Φ8×10.5	Φ8×12.5	Φ10×10.5	Φ10×12.5
A	2.4	2.9	2.9	3.2	3.2
B	6.6	8.3	8.3	10.3	10.3
C	6.6	8.3	8.3	10.3	10.3
E	2.2	3.1	3.1	4.5	4.5
L	7.7	10.5	12.5	10.5	12.5
H	0.5~0.8		0.8~1.1		

## 标称容量、额定电压、额定纹波电流与尺寸对应表

## Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

Rated Volt. (V)	Capacitance (uF)	Size ΦD×L(mm)	Tanδ (120HZ, 20°C)	LC (μA)	ESR (mΩ/at 100k~300kHz 20°C max)	Rated R. C. (mA/rms at 100kHz, 105°C)
10	220	6.3×7.7	0.14	220	20	3100
	270	6.3×7.7	0.14	270	20	3100
	820	8×12.5	0.14	820	14	4300
	680	8×10.5	0.14	680	16	3600
	1000	10×10.5	0.14	1000	14	4500
	1200	10×10.5	0.14	1200	14	4500
16	1500	10×12.5	0.14	1500	10	5100
	47	6.3×5.4	0.14	80	40	1500
	82	6.3×7.7	0.14	131	36	2000
	100	6.3×5.4	0.14	160	38	1650
	100	6.3×7.7	0.14	160	35	2100
	220	6.3×7.7	0.14	352	28	2700
	270	6.3×7.7	0.14	432	28	2700
	470	8×10.5	0.14	752	20	3400
	470	10×10.5	0.14	752	18	3700
	680	8×12.5	0.14	1088	15	3900
25	820	10×10.5	0.14	1312	15	4200
	1000	10×12.5	0.14	1600	12	4500
	47	6.3×5.4	0.14	117	40	1500
	100	6.3×5.4	0.14	250	38	1650
	100	6.3×7.7	0.14	250	35	2100
	180	8×12.5	0.14	450	24	2600
	220	8×10.5	0.14	550	24	2700
	220	10×10.5	0.14	550	20	3300
	330	8×12.5	0.14	825	20	3300
	470	10×10.5	0.14	1175	18	3500
560	10×12.5	0.14	1400	15	3800	



Rated Volt. (V)	Capacitance (uF)	Size ΦD×L(mm)	Tanδ (120HZ,20°C)	LC (μA)	ESR (mΩ/at 100k~300kHz 20°C max)	Rated R. C. (mA/rms at 100kHz, 105°C)
35	47	6.3×7.7	0.1	165	48	1800
	100	8×10.5	0.1	350	38	2300
	150	8×12.5	0.1	525	32	2900
	220	10×10.5	0.1	770	28	3100
	270	10×12.5	0.1	945	25	3300
50	27	6.3×7.7	0.1	135	48	1800
	68	8×10.5	0.1	340	42	2200
	82	8×12.5	0.1	410	40	2400
	100	8×12.5	0.1	500	40	2500
	100	10×10.5	0.1	500	35	2600
	150	10×12.5	0.1	750	35	2900
63	10	6.3×7.7	0.1	63	50	1500
	33	8×10.5	0.1	208	45	1900
	56	8×12.5	0.1	353	40	2400
	68	10×10.5	0.1	428	35	2600
	100	10×12.5	0.1	630	35	2900
80	33	8×12.5	0.1	264	45	1900
	47	10×10.5	0.1	376	40	2100
	56	10×12.5	0.1	448	40	2300
100	22	8×12.5	0.1	220	45	1900
	33	10×10.5	0.1	330	40	2100
	33	10×12.5	0.1	330	40	2300

### 额定纹波电流频率修正系数 Frequency correction factor for ripple current

Frequency (KHz)	0.1≤Freq.≤0.5	0.5 < Freq.≤1	1 < Freq.≤5	5 < Freq.≤10	10 < Freq.≤50	50 < Freq. < 100	100≤Freq.≤300
Coefficient	0.10	0.30	0.4	0.6	0.75	0.9	1