



# EF

## 导电性高分子铝固体电容器 (长寿命品) - 引线型

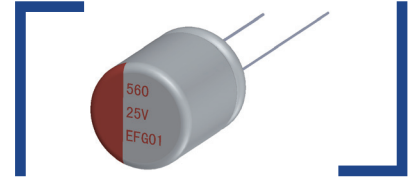
## Conductive Polymer Aluminum Solid Capacitors (Long life)- Radial Type

### 特点 Features

- 保证105°C 5000小时。Endurance: 5000 h at 105°C.
- 额定电压范围：10~100V DC。Rated Voltage Range:10~100V DC.
- 适用于系统板、显卡、服务器、多功能充电电源、智能电视、液晶电视电源、逆变器。

Applications : system board, display card, Servers, Multi-function charging power supply, intelligent TV, LCD-TV power, Inverter.

- 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	22~2200μF						
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) Tgδ	<table border="1"> <tr> <td>10~25V</td> <td>35~100V</td> </tr> <tr> <td>0.14</td> <td>0.10</td> </tr> </table>	10~25V	35~100V	0.14	0.10
10~25V	35~100V						
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5000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 5000 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					

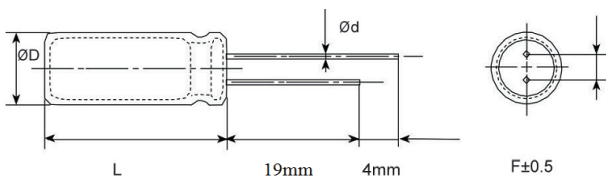
※ 当产生疑问的时候, 用以下电压处理后测定。

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



### 尺寸表 Size List

单位 Unit: mm

ΦD (+0.5max)	8	10
F (±0.5)	3.5	5
Φd(±0.05)	0.6	0.6
L	+1.0max	

标称电容量、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	1000	8×12	0.14	1000	14	4300
	1200	8×16	0.14	1200	12	4800
	1500	10×12.5	0.14	1500	10	5100
	2200	10×16	0.14	2200	10	5400
16	680	8×12	0.14	1088	15	3900
	820	8×16	0.14	1312	15	4200
	1000	10×12.5	0.14	1600	12	4500
	1500	10×16	0.14	2400	12	4600
25	180	8×12	0.14	450	20	3100
	330	8×12	0.14	825	20	3300
	470	8×12	0.14	1175	20	3450
	560	8×16	0.14	1400	18	3600
	560	10×12.5	0.14	1400	15	3800
	680	8×16	0.14	1700	18	3800
	680	10×12.5	0.14	1700	15	4000
	820	8×17	0.14	2050	15	3800
	820	10×16	0.14	2050	15	4200
	1000	10×16	0.14	2500	15	4200
35	100	8×12	0.1	350	32	2900
	220	8×16	0.1	770	30	3100
	330	10×12.5	0.1	1155	28	3300
	470	10×16	0.1	1645	28	3500
50	47	8×11.5	0.1	235	40	2300
	68	8×12	0.1	340	40	2400
	100	8×16	0.1	500	38	2600
	100	10×12.5	0.1	500	35	2900
	150	10×16	0.1	750	32	3100
63	47	8×12	0.1	296	40	2400
	68	8×16	0.1	428	38	2600
	150	10×12.5	0.1	945	35	2900
	180	10×16	0.1	1134	32	3100
80	27	8×12	0.1	216	45	1900
	33	8×16	0.1	264	42	2000
	47	10×12.5	0.1	376	40	2300
	68	10×16	0.1	544	36	2600
100	22	8×12	0.1	220	45	1900
	27	8×16	0.1	270	42	2000
	33	10×12.5	0.1	330	40	2300
	47	10×16	0.1	470	36	2600

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