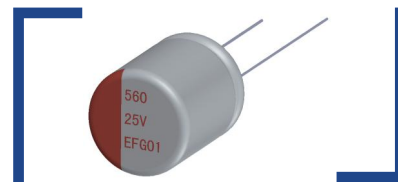


EF

特点 Features

- 保证105°C 5000小时。Endurance: 5000 h at 105°C.
- 额定电压范围：10~100V。Rated Voltage Range:10~100V .
- 长寿命。Long life.
- 满足RoHS要求。RoHS Compliant .

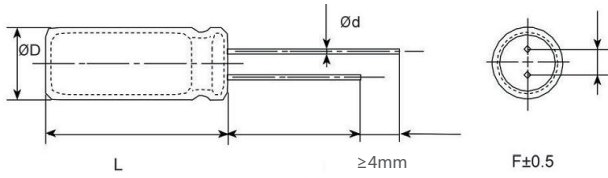


主要技术性能 Specifications

项目 Items	特性 Performance Characteristics								
类别温度范围 Category Temperature Range	-55°C ~+105°C								
额定电压范围 Rated Voltage (U _R)	10V ~100V								
标称容量范围 Nominal Capacitance Range(C _R)	22~ 2200μF	120Hz, +20°C							
标称容量允许偏差 Allowed Capacitance Tolerance(C _T)	±20% (M)		120Hz, +20°C						
漏电流 Leakage Current(I _L)	≤0.1C _R U _R		+20°C After 2 minutes						
损耗角正切值 Tangent of loss angle(Tanδ)	<table border="1"> <tr> <td>U_R</td> <td>10~25V</td> <td>35~100V</td> </tr> <tr> <td>Tanδ</td> <td>0.14</td> <td>0.10</td> </tr> </table>	U _R	10~25V	35~100V	Tanδ	0.14	0.10	Max. 120Hz, +20°C	
U _R	10~25V	35~100V							
Tanδ	0.14	0.10							
等效串联电阻 Equivalent Series Resistance(ESR)	参照规格表 Reference parameter table		Max. 100KHz, +20°C						
低温特性 Characteristics at low Temperature	$\frac{Z_{-25^\circ\text{C}}/Z_{+20^\circ\text{C}} \leq 1.5$ $\frac{Z_{-55^\circ\text{C}}/Z_{+20^\circ\text{C}} \leq 2.0$		Max 100KHz						
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 capacitor shall meet the following requirement:								
	容量变化率 Capacitance Change	±20%初始测试值以内 Within ±20% of initial measured value							
	损耗角正切 Tangent of loss angle	≤ 150%初始规定值 Not more than 150% of specified value							
	等效串联电阻 Equivalent Series Resistance	≤ 150%初始规定值 Not more than 150% of specified value							
高温贮存 Shelf Life	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%初始测量值以内 Within ±20% of initial measured value							
	损耗角正切 Dissipation Factor	≤ 150%初始规定值 Not more than 150% of specified value							
	等效串联电阻 Equivalent Series Resistance	≤ 150%初始规定值 Not more than 150% of specified value							
漏电流 Leakage Current	≤ 初始规定值 Not more than specified value								

※ 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 Dimensional drawings



尺寸表 Size table

单位 Unit: mm

$\Phi D (+0.5\text{max})$	6.3	8	10
$F (\pm 0.5)$	2.5	3.5	5
$\Phi d (\pm 0.05)$	0.6	0.6	0.6
L	+1.0max		

规格特性表
Table of specifications and characteristics

$U_R(V)$	$C_R(\mu F)$	$\Phi D \times L$ (mm*mm)	$\text{Tan}\delta$ (120HZ, 20°C)	$I_L(\mu A)$	ESR (mΩ/at 100k~300kHz 20°C max)	I_{ACR} (mA/rms at 100kHz, 105°C)
10	470	8×8	0.14	470	20	3500
	1000	8×12	0.14	1000	14	4300
	1000	10×12	0.14	1000	14	4800
	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	470	6.3×11	0.14	752	15	3500
	470	8×11.5	0.14	752	15	5000
	680	8×12	0.14	1088	15	3900
	820	6.3×16	0.14	1088	15	3900
	820	8×16	0.14	1312	15	4200
	1000	8×14	0.14	1600	15	4000
	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
	220	6.3×10	0.14	550	20	3100
	220	8×12	0.14	550	20	3300
	270	8×12	0.14	675	20	3300
	330	6.3×12	0.14	825	20	3100
	330	8×12	0.14	825	20	3300
	470	6.3×16.5	0.14	1175	20	3450
	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	6.3×12	0.1	350	35	2600
	100	8×12	0.1	350	32	2900
	220	8×12	0.1	770	30	3100
	220	8×16	0.1	770	30	3100
	330	8×16	0.1	1155	30	3100
	330	10×12.5	0.1	1155	28	3300
	470	10×12.5	0.1	1645	25	3500

U _R (V)	C _r (μF)	ΦD×L (mm*mm)	Tanδ (120HZ,20°C)	I _l (μA)	ESR (mΩ/at 100k~300kHz 20°C max)	I _{ACR} (mA/rms at 100kHz, 105°C)
35	470	10×16	0.1	1645	28	3500
	680	10×17	0.1	2380	28	3700
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	10×12.5	0.1	750	35	2900
	150	10×16	0.1	750	32	3100
	220	10×12.5	0.1	1100	30	3300
	220	10×16	0.1	1100	25	3600
63	47	8×12	0.1	296	40	2400
	68	8×12	0.1	428.4	38	2300
	68	8×16	0.1	428	38	2600
	82	10×12	0.1	516.1	36	2600
	100	8×16	0.1	630	38	2600
	100	10×12.5	0.1	630	35	2900
	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
	120	10×17	0.1	960	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 (Kf)	0.10	0.30	0.4	0.6	0.75	0.9	1