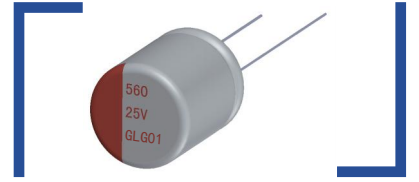


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特点 Features

- 保证135°C 4000小时。Endurance: 4000 h at 135°C.
- 额定电压范围：16~63V。Rate Voltage Range:16~63V.
- 长寿命、低漏电流、高可靠性。Long life, Low DC Leakage current, High reliability.
- 满足RoHS要求。RoHS Compliant.

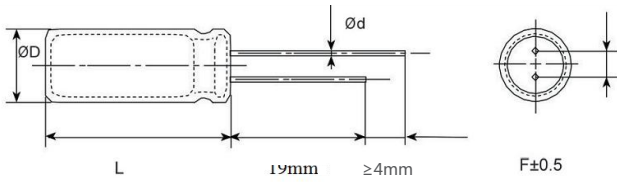


主要技术性能 Specifications

项目 Items	特性 Performance Characteristics			
类别温度范围 Category Temperature Range	-55°C ~ +135°C			
额定电压范围 Rated Voltage (U _R)	16V ~63V			
标称电容范围 Nominal Capacitance Range(C _N)	33~ 1500μF	120Hz, +20°C		
标称电容允许偏差 Allowed Capacitance Tolerance(C _T)	±20% (M)	120Hz, +20°C		
漏电流 Leakage Current(I _L)	≤0.05C _R U _R		+20°C After 2 minutes	
损耗角正切值 Tangent of loss angle(Tanδ)	U _R	16~25V	35~63V	Max. 120Hz, +20°C
	Tanδ	0.14	0.1	
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	在135°C环境中，不超过额定电压的范围下叠加额定纹波电流，连续加载额定电压4,000小时，待温度恢复到20°C后进行测试，电容器应满足以下要求： The capacitor shall be subjected to application of the DC. voltage with full rated ripple current at +135°C for 4000 hours. After stabilizing at 20°C, the capacitor shall not exceed the specified limits. (The sum of DC voltage and ripple peak voltage shall not exceed the rated voltage.)			
	电容变化率 Capacitance Change	±25%初始测量值以内 Within ±25% of initial measured value		
	损耗角正切 Tangent of loss angle	≤ 200%初始规定值 Not more than 200% of specified value		
	等效串联电阻 Equivalent Series Resistance	≤ 200%初始规定值 Not more than 200% of specified value		
	漏电流 Leakage Current	≤ 初始规定值 Not more than specified value		
高温贮存 Shelf Life	在135°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 +125°C±2°C with no voltage applied and then being stabilized at +20°C, the capacitors shall not exceed the specified values listed below:			
	电容变化率 Capacitance Change	±25%初始测量值以内 Within ±25% of initial measured value		
	损耗角正切 Dissipation Factor	≤ 200%初始规定值 Not more than 200% of specified value		
	等效串联电阻 Equivalent Series Resistance	≤ 200%初始规定值 Not more than 200% 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

ΦD (+0.5max)	6.3	8	10
F (±0.5)	2.5	3.5	5
Φd(±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 (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)	
						135°C	125°C
16	220	6.3×8	0.14	176	25	1450	2500
	330	6.3×10	0.14	264	23	1500	2600
	560	6.3×14	0.14	448	20	1600	2800
	390	8×8	0.14	312	20	1650	3000
	560	8×12	0.14	448	18	1950	3200
	820	8×16	0.14	656	15	2100	3400
	1000	10×12	0.14	800	15	2400	4000
25	1500	10×16	0.14	1200	12	2700	4500
	150	6.3×8	0.14	187.5	30	1400	2100
	220	6.3×10	0.14	275	28	1450	2200
	330	6.3×14	0.14	412.5	25	1650	2500
	220	8×8	0.14	275	25	1550	2800
	330	8×12	0.14	412.5	22	1650	3000
	560	8×16	0.14	700	20	2000	3300
35	560	10×12	0.14	700	18	2100	3500
	1000	10×16	0.14	1250	15	2500	4200
	68	6.3×8	0.1	119	32	1350	2000
	100	6.3×10	0.1	175	30	1400	2100
	150	6.3×14	0.1	262.5	27	1550	2300
	120	8×8	0.1	210	27	1350	2500
	180	8×12	0.1	315	25	1550	2800
	270	8×16	0.1	472.5	22	1650	3000
50	330	10×12	0.1	577.5	20	2000	3300
	470	10×16	0.1	822.5	18	2300	4000
	68	8×8	0.1	170	30	1250	2300
	100	8×12	0.1	250	28	1350	2500
	150	8×16	0.1	375	25	1600	2900
63	180	10×12	0.1	450	25	1850	3100
	270	10×16	0.1	675	22	2300	3800
	33	8×8	0.1	103.9	40	1100	2100
	47	8×12	0.1	148	35	1200	2300
	82	8×16	0.1	258.3	30	1300	2500
	100	10×12	0.1	315	30	1800	3000
	150	10×16	0.1	472.5	25	2250	3700

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)	0.05	0.10	0.3	0.4	0.7	0.9	1