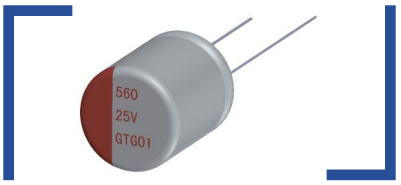
GT

特点 Features



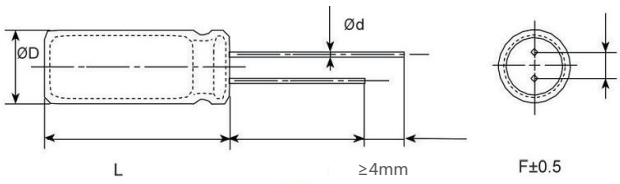
- 保证125℃ 5000小时。Endurance: 5000 h at 125℃.
- 额定电压范围：16~100V。Rate Voltage Range:16~100V.
- 长寿命、低漏电流、高可靠性。Long life, Low DC Leakage current, High reliability.
- 满足RoHS要求。RoHS Compliant.

主要技术性能 Specifications

项目 Items	特性 Performance Characteristics	
类别温度范围 Category Temperature Range	-55℃ ~+125℃	
额定电压范围 Rated Voltage (U_R)	16V ~100V	
标称电容量范围 Nominal Capacitance Range(C_R)	22~ 2200μF	120Hz,+20℃
标称电容量允许偏差 Allowed Capacitance Tolerance(C_T)	±20% (M)	120Hz,+20℃
漏电流 Leakage Current(I_L)	≦0.05$C_R U_R$	+20℃ After 2 minutes
损耗角正切值 Tangent of loss angle(Tanδ)	U_R | 16~25V | 35~100V Tanδ | 0.14 | 0.1	Max. 120Hz, +20℃
等效串联电阻 Equivalent Series Resistance(ESR)	参照规格表 Reference parameter table	Max. 100KHz, +20℃
低温特性 Characteristics at low Temperature	$Z_{-25℃}/Z_{+20℃}$≦1.5 $Z_{-55℃}/Z_{+20℃}$≦2.0	Max 100KHz
耐久性 Load Life	在125℃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5,000小时(100V：2000小时)，待温度恢复到20℃后进行测试，电容器应满足以下要求： The capacitor shall be subjected to application of the D.C. voltage with full rated ripple current at +125℃ for 5000 hours (100V：2000hours) . After stabilizing at 20℃, the capacitor shall not exceed the specified limits. (The sum of DC voltage and ripple peak voltage shall not exceed the rated voltage.)	
	电容量变化率 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125℃±2℃环境中，无负荷放置1000H后，待温度恢复到20℃后进行测试，电容器应满足以下要求： After storage for 1000 hours at +125℃±2℃ with no voltage applied and then being stabilized at +20℃, the capacitors shall not exceed the specified values listed below:	
	电容量变化率 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℃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 ℃ 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℃)	I_L(μA)	ESR (mΩ/at 100k~300kHz 20℃ max)	$I_{AC.R}$ (mA/rms at 100kHz , 125℃)
16	470	6.3×11	0.14	376	26	1450
	560	8×12	0.14	448	22	1800
	680	8×16	0.14	544	20	2050
	820	8×16	0.14	656	18	2100
	820	10×12.5	0.14	656	18	2200
	1000	10×16	0.14	800	16	2400
	1200	10×16	0.14	960	16	2400
	1800	10×16	0.14	1440	16	2600
	2200	10×17	0.14	1760	16	2700
25	150	6.3×8	0.14	187.5	32	1400
	330	8×12	0.14	412	23	1600
	470	8×16	0.14	587.5	20	1800
	560	10×12.5	0.14	700	18	1900
	680	8×16	0.14	850	16	2000
	680	10×16	0.14	850	16	2150
	820	10×16	0.14	1025	16	2150
	1000	10×16	0.14	1250	15	2300
35	100	8×12	0.1	175	24	1400
	220	8×16	0.1	385	22	1550
	270	10×12	0.1	472	20	1700
	330	10×12	0.1	577.5	20	1700
	330	10×16	0.1	577	18	1900
	470	10×16	0.1	822.5	15	2100
50	22	6.3×8	0.1	55	45	450
	100	8×12	0.1	250	30	1100
	150	8×16	0.1	375	28	1250
	150	10×12.5	0.1	375	26	1450
	220	10×12.5	0.1	550	25	1500
	220	10×16	0.1	550	24	1600
	300	10×16	0.1	750	24	1600
63	68	8×12	0.1	214	36	900
	100	8×16	0.1	315	32	1100
	100	10×12.5	0.1	315	30	1250
	150	10×16	0.1	472	28	1450
	180	10×16	0.1	567	28	1450

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U_R(V)	C_R(μF)	ΦD×L (mm*mm)	Tanδ (120HZ,20℃)	I_L(μA)	ESR (mΩ/at 100k~300kHz 20℃ max)	$I_{AC.R}$ (mA/rms at 100kHz , 125℃)
80	27	8×12	0.1	108	55	450
	33	8×16	0.1	132	50	600
	47	10×12.5	0.1	188	45	750
	68	10×16	0.1	272	40	900
	100	10×16	0.1	400	35	950
	120	10×17	0.1	480	35	1000
100	22	8×12	0.1	110	55	450
	27	8×16	0.1	135	50	600
	33	10×12.5	0.1	165	45	750
	47	10×16	0.1	235	40	900
	82	10×16	0.1	410	40	900
	300	18×22	0.1	1500	20	4500

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

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