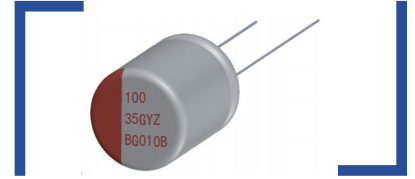


GYZ

特点 Features

- 保证125°C 5000小时。Endurance: 5000h at 125°C.
- 额定电压范围：16~50V。Rated Voltage Range:16~50V.
- 125度高温长寿命。125°C High Temperature & Long Life Type.
- 满足RoHS要求。RoHS Compliant.
- 满足AEC-Q200。AEC-Q200 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 ~+125°C				
额定电压范围 Rated Voltage (U_R)	16V ~50V				
标称电容范围 Nominal Capacitance Range(C_R)	33~470 μ F			120Hz, +20°C	
标称电容允许偏差 Allowed Capacitance Tolerance(C_T)	$\pm 20\%$			120Hz, +20°C	
漏电流 Leakage Current(I_L)	$\leq 0.05U_R C_R (\mu A)$			+20°C After 2 minutes	
损耗角正切值 Tangent of loss angle($\tan\delta$)	$U_R(V)$	16~25	35	50	Max. 120Hz, +20°C
	$\tan\delta$	0.14	0.12	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	Z _{-25°C/Z+20°C} ≤ 1.5 Z _{-55°C/Z+20°C} ≤ 2.0				Max 100KHz
耐久性 Load Life	+125°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： The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 125°C				
	电容变化率 Capacitance Change	$\pm 30\%$ 初始测试值以内 Within $\pm 30\%$ of initial measured value			
	损耗角正切 Tangent of loss angle	$\leq 200\%$ 初始规定值 Not more than 200% of specified value			
	阻抗 Equivalent Series Resistance	$\leq 200\%$ 初始规定值 Not more than 200% of tspecified value			
	漏电流 Leakage Current	\leq 初始规定值 Not more than specified value			
耐湿性负荷 Biased humidity	85°C, 85%湿度环境中，连续加载额定电压2,000小时，电容器应满足以下要求： After applying rated voltage for 2000 hours at 85°C and humidity of 85%, the capacitors shall meet the following criteria.				
	电容变化率 Capacitance Change	$\pm 30\%$ 初始测试值以内 Within $\pm 30\%$ of initial measured value			
	损耗角正切 Tangent of loss angle	$\leq 200\%$ 初始规定值 Not more than 200% of specified value			
	阻抗 Equivalent Series Resistance	$\leq 200\%$ 初始规定值 Not more than 200% of specified value			
	漏电流 Leakage Current	\leq 初始规定值 Not more than specified value			

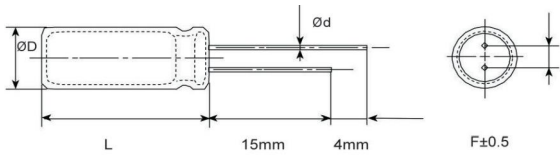
※ 当产生疑问的时候，用以下电压处理后测定。

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

$\Phi D(+0.5\max)$	8	10
$F(\pm 0.5)$	3.5	5
$\Phi d(\pm 0.05)$	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)	$\tan\delta$ (120HZ,20°C)	$I_L(\mu A)$	ESR (mΩ/at 100k~300kHz,max,20°C)	$I_{AC,R}$ (mA/rms at 100kHz)	
						105°C	125°C
16	220	8×12	0.14	176	24	2400	960
	270	8×16	0.14	216	22	2600	1040
	330	10×12.5	0.14	264	20	2900	1160
	470	10×16	0.14	376	20	3000	1200
20	150	8×12	0.14	150	25	2300	920
	220	8×16	0.14	220	23	2500	1000
	270	10×12.5	0.14	270	22	2800	1120
	330	10×16	0.14	330	21	2900	1160
25	100	8×12	0.14	125	25	2300	920
	150	8×16	0.14	187.5	23	2500	1000
	220	10×12.5	0.14	275	22	2800	1120
	270	10×16	0.14	337.5	21	2900	1160
35	68	8×12	0.12	119	30	2100	840
	82	8×16	0.12	143.5	28	2300	920
	100	10×12.5	0.12	175	28	2500	1000
	150	10×16	0.12	262.5	26	2700	1080
50	33	8×12	0.1	82.5	35	1900	760
	47	8×16	0.1	117.5	32	2100	840
	56	10×12.5	0.1	140	30	2300	920
	68	10×16	0.1	170	28	2600	1040

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