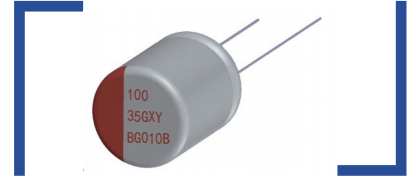


# GXY

## 特点 Features

- 保证125°C 3000小时。Endurance: 3000h 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 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				
标称容量范围 Nominal Capacitance Range( $C_R$ )	68~1000 $\mu$ F		120Hz, +20°C		
标称容量允许偏差 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	$Z_{-25^\circ C}/Z_{+20^\circ C} \leq 1.5$ $Z_{-55^\circ C}/Z_{+20^\circ C} \leq 2.0$				Max 100KHz
耐久性 Load Life	+125°C施加额定电压3000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 3000 hours at 125°C.				
	容量变化率 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.				
	容量变化率 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			

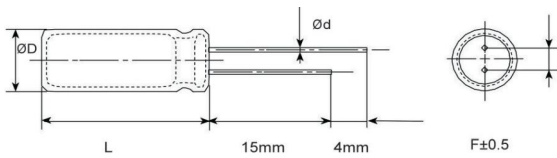
※ 当产生疑问的时候，用以下电压处理后测定。

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

$\Phi D(+0.5\text{max})$	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)	$\text{Tan}\delta$ (120HZ, 20°C)	$I_L(\mu A)$	ESR (mΩ/at 100k~300kHz,max,20°C)	$I_{ACR}$ (mA/rms at 100kHz,125°C)
16	560	8×12	0.14	448	22	1800
	680	8×16	0.14	544	20	2050
	820	10×12.5	0.14	656	16	2200
	1000	10×16	0.14	800	16	2400
25	330	8×12	0.14	412.5	23	1600
	470	8×16	0.14	587.5	20	1800
	560	10×12.5	0.14	700	18	1900
	680	10×16	0.14	850	16	2150
35	100	8×12	0.12	175	24	1400
	220	8×16	0.12	385	22	1550
	270	10×12.5	0.12	472.5	20	1700
	330	10×16	0.12	577.5	18	1900
50	68	8×12	0.1	170	32	900
	100	8×12	0.1	250	30	1100
	150	10×12.5	0.1	375	26	1450
	150	8×16	0.1	375	28	1250
	220	10×16	0.1	550	24	1600

额定纹波电流频率修正系数  
Frequency correction factor for ripple current

Frequency (KHz)	$0.1 \leq \text{Freq.} \leq 0.5$	$0.5 < \text{Freq.} \leq 1$	$1 < \text{Freq.} \leq 5$	$5 < \text{Freq.} \leq 10$	$10 < \text{Freq.} \leq 50$	$50 < \text{Freq.} < 100$	$100 \leq \text{Freq.} \leq 300$
Coefficient (Kf)	0.05	0.10	0.3	0.4	0.7	0.9	1