

GXR

特点 Features

- 保证150°C 1000小时。Endurance: 1000h at 150°C.
- 额定电压范围：16V~50V。Rated Voltage Range: 16V~50V.
- 150°C高温长寿命品。150°C High Temperature & Long Life Type.
- 满足RoHS要求。RoHS Compliant.
- 满足AEC-Q200。AEC-Q200 compliant.

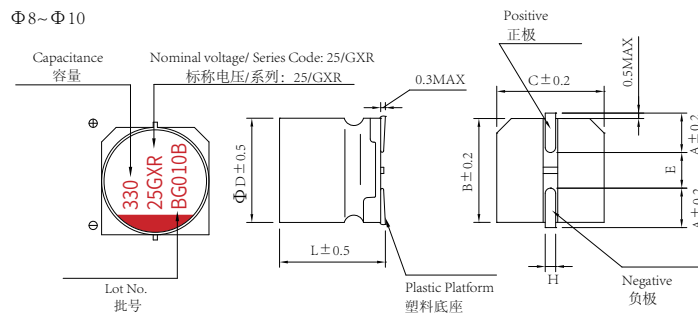


主要技术性能 Specifications

项目 Items	特性 Performance Characteristics				
类别温度范围 Category Temperature Range	-55°C ~ +150°C				
额定电压范围 Rated Voltage (U _R)	16V ~ 50V				
标称容量范围 Nominal Capacitance Range(C _N)	56~560μF			120Hz, +20°C	
标称容量允许偏差 Allowed Capacitance Tolerance(C _T)	±20%			120Hz, +20°C	
漏电流 Leakage Current(I _L)	≤0.05U _R C _N (μA) or 3μA ,whichever is greater			+20°C After 2 minutes	
损耗角正切值 Tangent of loss angle(Tanδ)	U _R (V)	16~25	35	50	Max. 120Hz, +20°C
	Tanδ	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	+150°C施加额定电压1000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 1000 hours at 150°C.				
	电容量变化率 Capacitance Change	±30%初始测试值以内 Within ±30% 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			
	阻抗 Equivalent Series Resistance	≤ 200%初始规定值 Not more than 200% of tspecified value			
	漏电流 Leakage Current	≤ 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.				
	电容量变化率 Capacitance Change	±30%初始测试值以内 Within ±30% 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			
	阻抗 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

	$\Phi 8 \times 10.5$	$\Phi 8 \times 12.5$	$\Phi 10 \times 10.5$	$\Phi 10 \times 12.5$
A	2.9	2.9	3.2	3.2
B	8.3	8.3	10.3	10.3
C	8.3	8.3	10.3	10.3
E	3.1	3.1	4.5	4.5
L	10.5	12.5	10.5	12.5
H	0.8~1.1			

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, 150°C)
16	270	8×10.5	0.14	216	27	800
	330	8×10.5	0.14	264	25	800
	470	10×10.5	0.14	376	20	1000
	560	10×12.5	0.14	448	16	1100
25	150	8×10.5	0.14	187.5	27	800
	220	8×10.5	0.14	275	27	800
	270	8×12.5	0.14	337.5	25	900
	330	10×10.5	0.14	412.5	20	1000
	470	10×12.5	0.14	587.5	17	1100
35	100	8×10.5	0.12	175	30	770
	120	8×12.5	0.12	210	25	820
	150	10×10.5	0.12	262.5	23	950
	220	10×12.5	0.12	385	20	1000
50	56	8×10.5	0.1	140	35	700
	68	8×12.5	0.1	170	30	750
	100	10×10.5	0.1	250	28	900
	120	10×12.5	0.1	300	25	950

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