

GXL

特点 Features

- 保证105°C 5000~10000小时。Endurance: 5000~10000h at 105°C.
- 额定电压范围：16V~80V。Rated Voltage Range: 16V~80V.
- 长寿命品。Long Life Type.
- 满足RoHS要求。RoHS Compliant.
- 满足AEC-Q200。AEC-Q200 compliant.

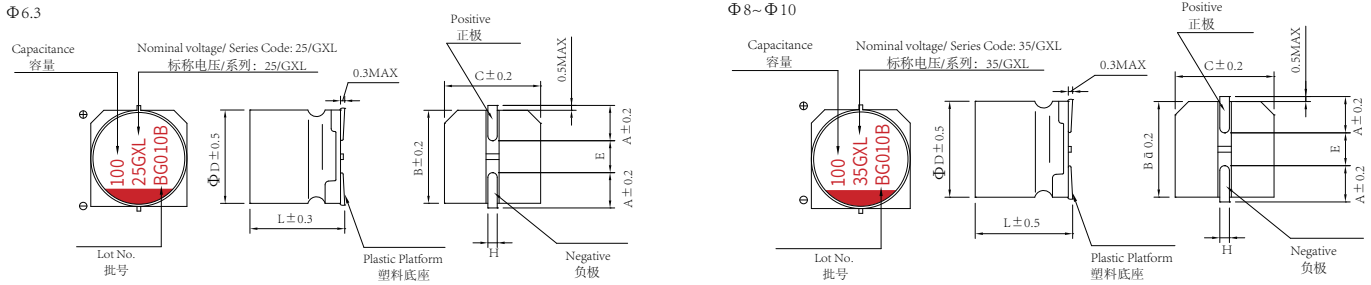


主要技术性能 Specifications

项目 Items	特性 Performance Characteristics						
类别温度范围 Category Temperature Range	-55°C ~ +105°C						
额定电压范围 Rated Voltage (U _R)	16V ~ 80V						
标称容量范围 Nominal Capacitance Range(C _R)	10~560μF				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 _R (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	63	80	Max. 120Hz, +20°C
	Tanδ	0.14	0.12	0.10	0.08	0.08	
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	+105°C施加额定电压10000小时(Φ6.3:5000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 10000 hours (Φ6.3:5000hours) at 105°C.						
	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					
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	±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

	Φ6.3×5.8	Φ6.3×7.7	Φ8×10.5	Φ10×10.5	Φ10×12.5
A	2.4	2.4	2.9	3.2	3.2
B	6.6	6.6	8.3	10.3	10.3
C	6.6	6.6	8.3	10.3	10.3
E	2.2	2.2	3.1	4.5	4.5
L	5.8	7.7	10.5	10.5	12.5
H	0.5~0.8		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)	$\tan\delta$ (120HZ,20°C)	$I_L(\mu A)$	ESR (mΩ/at 100k~300kHz,max,20°C)	I_{ACR} (mA/rms at 100kHz,105°C)
16	82	6.3×5.8	0.14	65.6	45	1350
	150	6.3×7.7	0.14	120	27	2000
	270	8×10.5	0.14	216	22	2550
	470	10×10.5	0.14	376	18	3100
	560	10×12.5	0.14	448	18	3250
25	47	6.3×5.8	0.14	58.75	50	1250
	56	6.3×5.8	0.14	70	50	1250
	68	6.3×7.7	0.14	85	30	2000
	100	6.3×7.7	0.14	125	30	2000
	150	8×10.5	0.14	187.5	27	2400
	220	8×10.5	0.14	275	27	2400
	270	10×10.5	0.14	337.5	20	2850
	330	10×10.5	0.14	412.5	20	2850
35	47	6.3×5.8	0.12	82.25	60	1250
	47	6.3×7.7	0.12	82.25	35	2000
	68	6.3×7.7	0.12	119	35	2000
	100	8×10.5	0.12	175	27	2250
	150	8×10.5	0.12	262.5	27	2250
	150	10×10.5	0.12	262.5	20	2850

规格特性表
Table of specifications and characteristics

U_R (V)	C_R (μ F)	$\Phi D \times L$ (mm*mm)	Tan δ (120HZ,20°C)	I_L (μ A)	ESR (m Ω /at 100k~300kHz,max,20°C)	$I_{AC,R}$ (mA/rms at 100kHz,105°C)
35	270	10×10.5	0.12	472.5	20	2850
	330	10×12.5	0.12	577.5	20	3100
50	10	6.3×5.8	0.10	25	80	1050
	22	6.3×5.8	0.10	55	80	1050
	33	6.3×7.7	0.10	82.5	40	1550
	33	8×10.5	0.10	82.5	30	1750
	47	8×10.5	0.10	117.5	30	1750
	56	10×10.5	0.10	140	25	2250
	68	8×10.5	0.10	170	30	1750
	100	10×10.5	0.10	250	25	2250
	120	10×12.5	0.10	300	25	2550
	150	10×12.5	0.10	375	25	2550
63	10	6.3×5.8	0.08	31.5	120	1000
	10	6.3×7.7	0.08	31.5	80	1250
	22	6.3×7.7	0.08	69.3	80	1250
	22	8×10.5	0.08	69.3	40	1550
	33	8×10.5	0.08	103.95	40	1550
	33	10×10.5	0.08	103.95	30	2000
	47	8×10.5	0.08	148.05	40	1550
	56	10×10.5	0.08	176.4	30	2000
	68	10×10.5	0.08	214.2	30	2000
	82	10×12.5	0.08	258.3	30	2200
80	22	8×10.5	0.08	88	45	1550
	33	10×10.5	0.08	132	35	1850
	47	10×12.5	0.08	188	35	2000

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