GXV

特点 Features

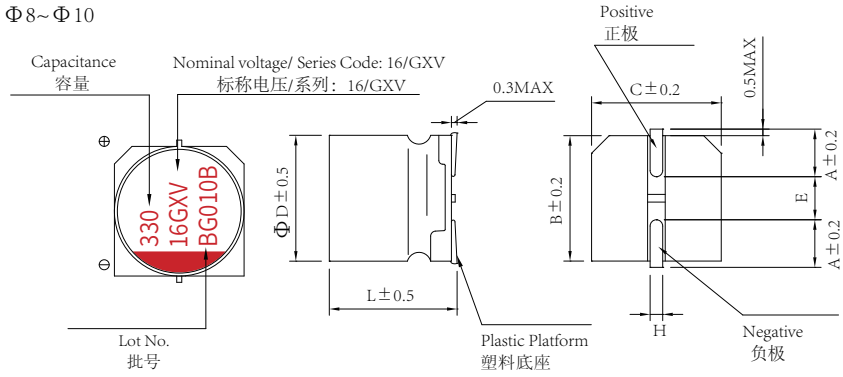
- 保证105℃ 3000小时。Endurance: 3000h at 105℃.
- 额定电压范围：16~100V。Rated Voltage Range:16~100V.
- 标准品。Standard Type.
- 满足RoHS要求。RoHS Compliant.
- 满足AEC-Q200。AEC-Q200 compliant.

主要技术性能 Specifications

项目 Items	特性 Performance Characteristics					
类别温度范围 Category Temperature Range	-55℃ ~+105℃					
额定电压范围 Rated Voltage (U_R)	16V ~100V					
标称电容量范围 Nominal Capacitance Range(C_R)	10~ 680μF					120Hz,+20℃
标称电容量允许偏差 Allowed Capacitance Tolerance(C_T)	±20%					120Hz,+20℃
漏电流 Leakage Current(I_L)	≤0.05$U_R C_R$(μA)					+20℃ After 2 minutes
损耗角正切值 Tangent of loss angle(Tanδ)	U_R(V)	16~25	35	50	63~100	Max. 120Hz, +20℃
	Tanδ	0.14	0.12	0.10	0.08	
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	+105℃施加额定电压3000小时后，待温度恢复到20℃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 105°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℃，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℃ 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℃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 drawwings



尺寸表 Size table

单位 Unit: mm

	Φ8×10.5	Φ8×12.5	Φ10×10.5	Φ10×12.5
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(μF)	ΦD×L (mm*mm)	Tanδ (120HZ，20℃)	I_L (μA)	ESR (mΩ/at 100k~300kHz,max,20℃)	$I_{AC.R}$ (mA/rms at 100kHz，105℃)
16	330	8×10.5	0.14	264	22	2500
	390	8×12.5	0.14	312	20	2700
	470	10×10.5	0.14	376	19	3200
	680	10×12.5	0.14	544	18	3600
20	270	8×10.5	0.14	270	24	2300
	330	8×12.5	0.14	330	24	2500
	390	10×10.5	0.14	390	22	2800
	560	10×12.5	0.14	560	20	3200
25	220	8×10.5	0.14	275	26	2000
	270	8×12.5	0.14	337.5	26	2200
	270	10×10.5	0.14	337.5	25	2500
	330	10×12.5	0.14	412.5	24	2800
35	100	8×10.5	0.12	175	32	1800
	120	8×12.5	0.12	210	31	2000
	150	10×10.5	0.12	262.5	29	2300
	220	10×12.5	0.12	385	27	2600
50	56	8×10.5	0.10	140	35	1600
	68	8×12.5	0.10	170	32	1900
	82	10×10.5	0.10	205	30	2000
	100	10×12.5	0.10	250	29	2300

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,max,20℃)	$I_{AC.R}$ (mA/rms at 100kHz，105℃)
63	39	8×10.5	0.08	122.85	38	1300
	47	8×12.5	0.08	148.05	36	1500
	56	10×10.5	0.08	176.4	33	1800
	68	10×12.5	0.08	214.2	30	2100
80	15	8×10.5	0.08	60	41	1100
	22	8×12.5	0.08	88	39	1300
	22	10×10.5	0.08	88	35	1500
	27	10×12.5	0.08	108	33	1900
100	10	8×10.5	0.08	50	46	1000
	12	8×12.5	0.08	60	45	1200
	15	10×10.5	0.08	75	38	1400
	22	10×12.5	0.08	110	36	1700

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