

GXX

特点 Features

- 保证125°C 2000~3000小时。Endurance: 2000~3000h at 125°C.
- 额定电压范围: 16~50V。Rated Voltage Range:16~50V.
- 125°C高温品。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)	39~470μF			120Hz, +20°C	
标称容量允许偏差 Allowed Capacitance Tolerance(C _r)	±20%			120Hz, +20°C	
漏电流 Leakage Current(I _l)	≤0.05U _R C _R (μA)			+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	+125°C施加额定电压3000(≤Φ6.3 2000h)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	±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.				
	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			

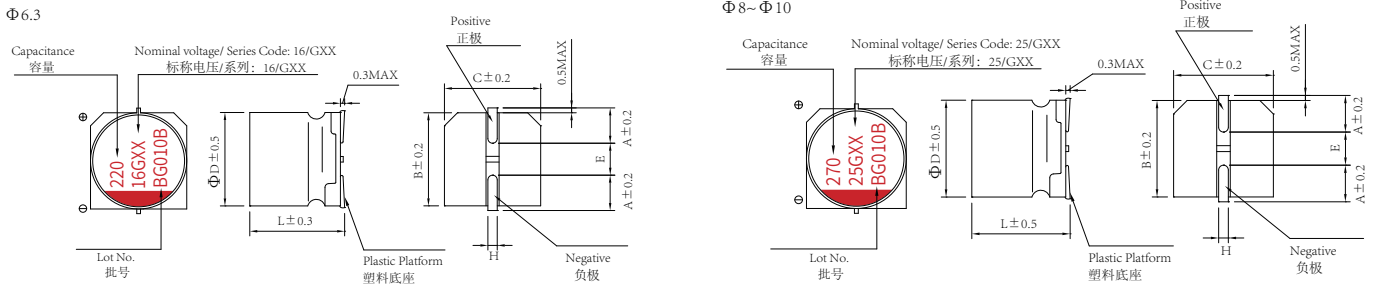
※ 当产生疑问的时候, 用以下电压处理后测定。

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

	Φ6.3×7.7	Φ8×10.5	Φ8×12.5	Φ10×10.5	Φ10×12.5
A	2.4	2.9	2.9	3.2	3.2
B	6.6	8.3	8.3	10.3	10.3
C	6.6	8.3	8.3	10.3	10.3
E	2.2	3.1	3.1	4.5	4.5
L	7.7	10.5	12.5	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 (μF)	ΦD×L (mm*mm)	Tanδ (120HZ,20°C)	I _L (μA)	ESR (mΩ/at 100k~300kHz,max,20°C)	I _{ACR} (mA/rms at 100kHz)	
						105°C	125°C
16	220	6.3×7.7	0.14	176	35	1300	520
	270	8×10.5	0.14	216	28	2200	880
	330	8×12.5	0.14	264	26	2400	960
	390	10×10.5	0.14	312	26	2500	1000
	470	10×12.5	0.14	376	24	2800	1120
20	220	8×10.5	0.14	220	29	2100	840
	270	8×12.5	0.14	270	28	2200	880
	330	10×10.5	0.14	330	28	2300	920
	390	10×12.5	0.14	390	25	2500	1000
25	100	6.3×7.7	0.14	125	38	1100	440
	180	8×10.5	0.14	225	30	2000	800
	220	8×12.5	0.14	275	29	2100	840
	270	10×10.5	0.14	337.5	29	2200	880
	330	10×12.5	0.14	412.5	25	2400	960
35	47	6.3×7.7	0.12	82.25	40	1000	400
	100	8×10.5	0.12	175	32	1800	720
	120	8×12.5	0.12	210	33	1900	760
	120	10×10.5	0.12	210	33	2000	800
	180	10×12.5	0.12	315	30	2100	840

规格特性表
Table of specifications and characteristics

U _r (V)	C _r (μF)	ΦD×L (mm*mm)	Tanδ (120HZ,20°C)	I _L (μA)	ESR (mΩ/at 100k~300kHz,max,20°C)	I _{ACR} (mA/rms at 100kHz)	
						105°C	125°C
50	39	8×10.5	0.10	97.5	36	1600	640
	56	8×12.5	0.10	140	34	1700	680
	56	10×10.5	0.10	140	34	1800	720
	68	10×12.5	0.10	170	32	1900	760

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