EM

特点 Features

- 保证125℃ 2000小时。Endurance: 2000 h at 125℃.
- 额定电压范围：10~100V。Rated Voltage Range:10~100V .
- 高温品。High Temperature Type.
- 满足RoHS 要求。RoHS Compliant.

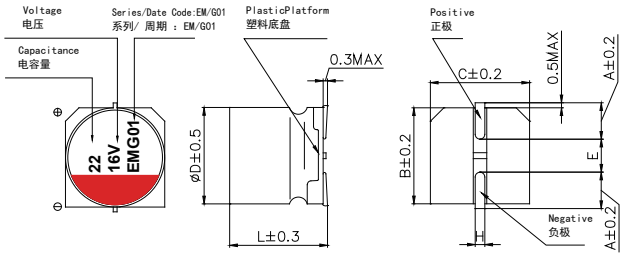
主要技术性能 Specifications

项目 Items	特性 Performance Characteristics	
类别温度范围 Category Temperature Range	-55℃ ~+125℃	
额定电压范围 Rated Voltage (U_R)	10V ~100V	
标称电容量范围 Nominal Capacitance Range(C_R)	22~ 1500μF	120Hz,+20℃
标称电容量允许偏差 Allowed Capacitance Tolerance(C_T)	±20% (M)	120Hz,+20℃
漏电流 Leakage Current(I_L)	≦0.1$C_R U_R$	+20℃ After 2 minutes
损耗角正切值 Tangent of loss angle(Tanδ)	U_R | 10~25V | 35~100V Tanδ | 0.14 | 0.1	Max. 120Hz, +20℃
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	+125℃施加额定电压2000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 After 2000 hours' application of rated voltage at 125℃,and then being stabilized at +20℃, the capacitor shall meet the following requirement:	
	电容量变化率 Capacitance Change	±20%初始测试值以内 Within ±20% of initial measured value
	损耗角正切 Tangent of loss angle	≤ 150%初始规定值 Not more than 150% of specified value
	等效串联电阻 Equivalent Series Resistance	≤ 150%初始规定值 Not more than 150% of specified value
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value
高温贮存 Shelf Life	在125℃±2℃环境中，无负荷放置1000H后，待温度恢复到20℃后进行测试，电容器应满足以下要求： After storage for 1000 hours at +125℃±2℃ with no voltage applied and then being stabilized at +20℃, the capacitors shall not exceed the specified values listed below:	
	电容量变化率 Capacitance Change	±20%初始测量值以内 Within ±20% of initial measured value
	损耗角正切 Dissipation Factor	≤ 150%初始规定值 Not more than 150% of specified value
	等效串联电阻 Equivalent Series Resistance	≤ 150%初始规定值 Not more than 150% of specified value
	漏电流 Leakage Current	≤ 初始规定值 Not more than specified value

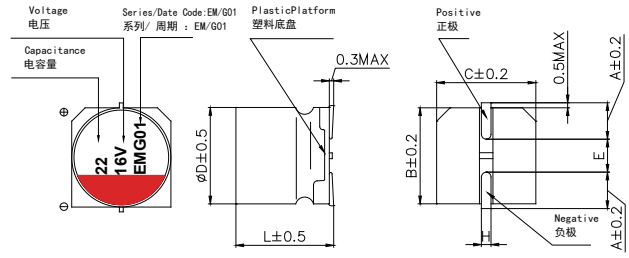
※ 当产生疑问的时候，用以下电压处理后测定。
电压处理: 125℃下，连续加载120 分钟的电压。加载电压为额定电压。
When in doubt, apply the following voltage treatment and measure.
Voltage processing: under the condition of 125 ℃ ambient temperature, continuous load voltage of 120 minutes. Load voltage is rated voltage.

尺寸图 Dimensional drawings

Φ6.3



Φ8 ~ Φ10



尺寸表 Size table

单位 Unit: mm

	Φ6.3×5.8	Φ6.3×7.7	Φ8×10.5	Φ8×12.5	Φ10×10.5	Φ10×12.5
A	2.4	2.4	2.9	2.9	3.2	3.2
B	6.6	6.6	8.3	8.3	10.3	10.3
C	6.6	6.6	8.3	8.3	10.3	10.3
E	2.2	2.2	3.1	3.1	4.5	4.5
L	5.8	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℃)	I_L(μA)	ESR (mΩ/at 100k~300kHz 20℃ max)	$I_{AC.R}$ (mA/rms at 100kHz , 125℃)
10	56	6.3×5.8	0.14	56	45	800
	220	6.3×5.8	0.14	220	40	900
	220	6.3×7.7	0.14	220	25	1850
	270	6.3×7.7	0.14	270	25	1850
	680	8×10.5	0.14	680	16	2150
	820	8×12.5	0.14	820	14	2550
	1000	10×10.5	0.14	1000	14	2700
	1200	10×10.5	0.14	1200	14	2700
	1500	10×12.5	0.14	1500	10	3050
16	82	6.3×7.7	0.14	131.2	36	1200
	100	6.3×5.8	0.14	160	40	950
	100	6.3×7.7	0.14	160	35	1250
	220	6.3×7.7	0.14	352	28	1600
	470	8×10.5	0.14	752	20	2050
	470	10×10.5	0.14	752	18	2200
	680	8×12.5	0.14	1088	15	2300
	820	10×10.5	0.14	1312	15	2500
	1000	10×12.5	0.14	1600	12	2700
25	100	6.3×5.8	0.14	250	38	950
	100	6.3×7.7	0.14	250	35	1250
	120	6.3×7.7	0.14	300	30	1300
	270	8×10.5	0.14	675	24	1600
	330	8×12.5	0.14	825	20	1950
	330	10×10.5	0.14	825	18	2100
	470	10×10.5	0.14	1175	18	2100
	560	10×12.5	0.14	1400	15	2250

U_R(V)	C_R(μF)	ΦD×L (mm*mm)	Tanδ (120HZ,20℃)	I_L(μA)	ESR (mΩ/at 100k~300kHz 20℃ max)	$I_{AC.R}$ (mA/rms at 100kHz , 125℃)
35	47	6.3×7.7	0.1	164.5	48	1050
	100	8×10.5	0.1	350	38	1350
	150	8×12.5	0.1	525	32	1700
	220	10×10.5	0.1	770	28	1850
	270	10×12.5	0.1	945	25	1950
50	22	6.3×5.8	0.1	110	48	950
	27	6.3×7.7	0.1	135	48	1050
	68	8×10.5	0.1	340	42	1300
	82	8×12.5	0.1	410	40	1400
	100	8×12.5	0.1	500	40	1500
	100	10×10.5	0.1	500	35	1550
	150	10×12.5	0.1	750	35	1750
63	33	8×10.5	0.1	207.9	45	1150
	56	8×12.5	0.1	352.8	40	1450
	68	10×10.5	0.1	428.4	35	1550
	100	10×12.5	0.1	630	35	1750
80	33	8×12.5	0.1	264	45	1150
	47	10×10.5	0.1	376	40	1250
	56	10×12.5	0.1	448	40	1350
100	22	10x10.5	0.1	220	40	1250
	27	8×12.5	0.1	270	45	1150
	27	10×10.5	0.1	270	40	1250
	33	10×12.5	0.1	330	40	1350

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)	0.1	0.3	0.4	0.6	0.75	0.9	1