

EK

特点 Features

- 保证115°C 2000小时。Endurance: 2000 h at 115°C.
- 额定电压范围：10~100V。Rated Voltage Range:10~100V.
- 耐高温。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°C ~ +115°C								
额定电压范围 Rated Voltage (U _R)	10V ~100V								
标称容量范围 Nominal Capacitance Range(C _R)	15~ 2200μF	120Hz, +20°C							
标称容量允许偏差 Allowed Capacitance Tolerance(C _r)	±20% (M)	120Hz, +20°C							
漏电流 Leakage Current(I _L)	≤0.1C _R U _R		+20°C After 2 minutes						
损耗角正切值 Tangent of loss angle(Tanδ)	<table border="1"> <tr> <td>U_R</td> <td>10~25V</td> <td>35~100V</td> </tr> <tr> <td>Tanδ</td> <td>0.14</td> <td>0.1</td> </tr> </table>	U _R	10~25V	35~100V	Tanδ	0.14	0.1	Max. 120Hz, +20°C	
U _R	10~25V	35~100V							
Tanδ	0.14	0.1							
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	$Z_{-25°C}/Z_{+20°C} \leq 1.5$ $Z_{-55°C}/Z_{+20°C} \leq 2.0$		Max 100KHz						
耐久性 Load Life	+115°C施加额定电压2000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： After 2000 hours' application of rated voltage at 115°C, and then being stabilized at +20°C, 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 specified value							
高温贮存 Shelf Life	在105°C±2°C环境中，无负荷放置1000H后，待温度恢复到20°C后进行测试，电容器应满足以下要求： After storage for 1000 hours at +105°C±2°C with no voltage applied and then being stabilized at +20°C, 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							

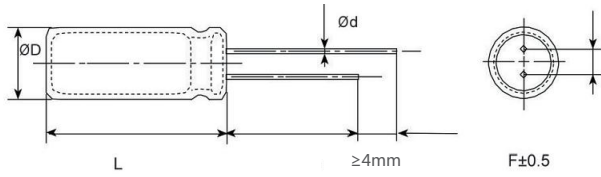
※ 当产生疑问的时候，用以下电压处理后测定。

电压处理: 125°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

ΦD (+0.5max)	5.45	6.3 (L < 8)	6.3	8	10
F (± 0.5)	2.5	2.5	2.5	3.5	5
Φd (± 0.05)	0.5	0.5	0.6	0.6	0.6
L	+1.0max				

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 20°C max)	I_{ACR} (mA/rms at 100kHz , 115°C)
10	270	6.3×7	0.14	270	20	2325
	330	6.3×8	0.14	330	20	2475
	560	6.3×9	0.14	560	18	2625
	560	6.3×11	0.14	560	16	2700
	680	8×8	0.14	680	16	2700
	820	8×9	0.14	820	15	2925
	1000	8×12	0.14	1000	14	3225
	1200	8×16	0.14	1200	12	3600
	1500	10×12.5	0.14	1500	10	3825
	2200	10×16	0.14	2200	10	4050
16	220	6.3×7	0.14	352	28	2025
	270	6.3×8	0.14	432	26	2175
	330	5.45×10	14	528	20	2300
	330	6.3×9	0.14	528	24	2325
	470	6.3×11	0.14	752	20	2550
	470	8×8	0.14	752	20	2550
	560	8×9	0.14	896	18	2700
	820	8×12	0.14	1312	15	2925
	1000	8×16	0.14	1600	15	3150
	1200	10×12.5	0.14	1920	12	3375
1800	10×16	0.14	2880	12	3450	
25	100	6.3×7	0.14	250	35	1575
	150	6.3×8	0.14	375	30	1725
	180	6.3×9	0.14	450	28	1875
	220	5.45×11	14	550	15	2100
	220	6.3×11	0.14	550	24	2025
	220	8×8	0.14	550	24	2025
	330	6.3×11	0.14	825	24	2175
	330	6.3×14	14	825	20	2300
	330	8×9	0.14	825	22	2175
	390	8×12	0.14	975	20	2475
	470	6.3×15	0.14	1175	15	2600
	560	8×16	0.14	1400	18	2700
	680	10×12.5	0.14	1700	15	2850
	1000	10×16	0.14	2500	15	3150
	1500	10×17	14	3750	15	3500

U _R (V)	C _R (μF)	ΦD×L (mm*mm)	Tanδ (120HZ,20°C)	I _L (μA)	ESR (mΩ/at 100k~300kHz 20°C max)	I _{ACR} (mA/rms at 100kHz , 115°C)
35	56	6.3×7	0.1	196	48	1350
	68	6.3×8	0.1	238	45	1500
	100	6.3×9	0.1	350	40	1650
	120	6.3×11	0.1	420	38	1725
	120	8×8	0.1	420	38	1725
	150	8×9	0.1	525	35	1950
	220	8×12	0.1	770	32	2175
	270	8×16	0.1	945	30	2325
	330	10×12.5	0.1	1155	28	2475
	470	10×16	0.1	1645	28	2625
	680	10×16	0.1	2380	20	2800
	820	10×16	0.1	2870	20	3000
50	27	6.3×7	0.1	135	48	1350
	33	6.3×8	0.1	165	45	1500
	39	6.3×9	0.1	195	42	1612
	56	6.3×11	0.1	280	42	1650
	56	8×8	0.1	280	42	1650
	68	8×9	0.1	340	40	1800
	100	8×12	0.1	500	40	1800
	120	8×16	0.1	600	38	1950
	150	10×12.5	0.1	750	35	2175
	220	10×16	0.1	1100	32	2325
63	15	6.3×7	0.1	94	50	1125
	22	6.3×8	0.1	138	50	1200
	27	6.3×9	0.1	170	45	1312
	39	6.3×11	0.1	245	45	1425
	39	8×8	0.1	245	45	1425
	47	8×9	0.1	296	42	1575
	68	8×12	0.1	428	40	1800
	100	8×16	0.1	630	38	1950
	100	10×12.5	0.1	630	35	2175
	150	10×16	0.1	945	32	2325
80	27	8×8	0.1	216	55	1125
	33	8×9	0.1	264	50	1275
	47	8×12	0.1	376	45	1425
	68	8×16	0.1	544	42	1500
	82	10×12.5	0.1	656	40	1725
	100	10×16	0.1	800	36	1950
100	15	8×8	0.1	150	55	1125
	22	8×9	0.1	220	50	1275
	27	8×12	0.1	270	45	1425
	33	8×16	0.1	330	42	1500
	47	10×12.5	0.1	470	40	1725
	68	10×16	0.1	680	36	1950

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)	0.10	0.30	0.4	0.6	0.75	0.9	1