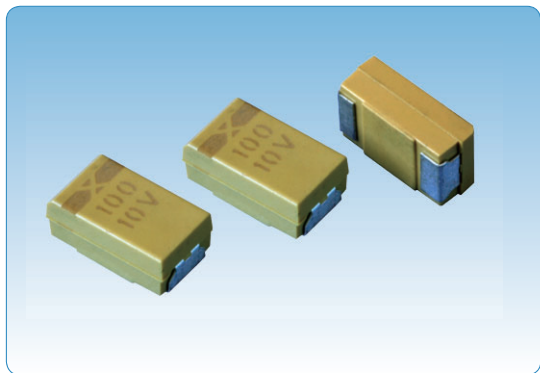


CA45 型片式固体电解质钽电容器

执行标准: Q/MM82A-2010



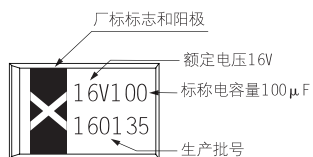
特征与用途

- 模压封装、密封性好、片式、体积小、重量轻、极性电容器;
- 电性能优良、稳定可靠、等效于VISHAY公司293D型;
- 可生产无铅环保型产品, 用户需要时在订货合同中注明需求;
- 适用于移动通讯、摄像机、程控交换机、计算机、汽车电子等各种电子设备的表面贴装直流或脉动电路。
- 订货书写格式: CA45-C-4V-150 μ F-K-2000只。

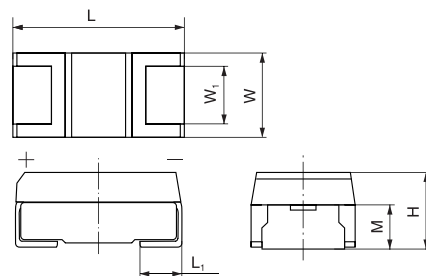
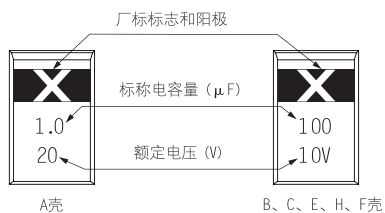
主要技术性能

- 温度范围: $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ ($> 85^{\circ}\text{C}$ 时, 施加类别电压使用);
- 额定电压、类别电压、标称电容量: 见表2;
- 电容量允许偏差: K: $\pm 10\%$, M: $\pm 20\%$;
- 高低温特性: 见表2;
- 外形尺寸及外壳代号: 见图1和表1。

含铅型(普军)产品标志示意:



无铅环保型产品标志示意:



(产品标志中厂标符号 所在端对应的贴片为正极)

图1

表1 电容器的外形尺寸

外壳代号		外形尺寸 mm					
新云	EIA	L	W	H	L ₁	W ₁	M
A	3216-18	3.2 \pm 0.2	1.6 \pm 0.2	1.6 \pm 0.2	0.65 \pm 0.2	1.2 \pm 0.2	1.0 \pm 0.2
B	3528-21	3.5 \pm 0.2	2.8 \pm 0.2	1.9 \pm 0.2	0.70 \pm 0.2	2.0 \pm 0.2	1.2 \pm 0.2
C	6032-28	5.8 \pm 0.3	3.2 \pm 0.3	2.5 \pm 0.3	1.35 \pm 0.2	2.2 \pm 0.2	1.45 \pm 0.2
E (D) *	7343-31	7.3 \pm 0.3	4.3 \pm 0.3	2.8 \pm 0.3	1.35 \pm 0.2	3.0 \pm 0.2	1.6 \pm 0.2
H (E, X) **	7343-43	7.3 \pm 0.3	4.3 \pm 0.3	4.1 \pm 0.3	1.35 \pm 0.2	3.0 \pm 0.2	1.6 \pm 0.2
F	7360-38	7.3 \pm 0.3	6.0 \pm 0.3	3.5 \pm 0.3	1.3 \pm 0.2	4.0 \pm 0.2	1.9 \pm 0.2

注: 1) EIA指(美国)电子工业协会;

2) *E壳等同于KEMET、VISHAY和AVX公司的D壳产品尺寸;

3) **H壳等同于KEMET公司的x壳、VISHAY和AVX公司的E壳产品尺寸。



表2 电容器的额定电压、类别电压、标称电容量、外壳代号、等效串联电阻及高低温特性

标称电容量 μF	外壳代号	等效串联电阻 max 100KHz 25°C Ω	直流漏电流max μA			电容量变化范围 %		损耗角正切max %		
			+25°C	+85°C	+125°C	-55°C +85°C	+125°C	-55°C	+25°C	+85°C +125°C
额定电压4V (类别电压2.5V)										
3.3	A	8	0.5	5	6.3	±10	±12	8	6	8
4.7	A	8	0.5	5	6.3	±10	±12	8	6	8
6.8	A	8	0.5	5	6.3	±10	±12	8	6	8
10	B	4	0.5	5	6.3	±10	±12	8	6	8
10	A	8	0.5	5	6.3	±10	±12	8	6	8
15	B	3.5	0.6	6	7.5	±10	±12	8	6	8
15	A	6	0.6	6	7.5	±10	±12	8	6	8
22	C	3.2	0.9	8.8	11	±10	±12	8	6	8
22	B	5	0.9	8.8	11	±10	±12	8	6	8
22	A	6	0.9	8.8	11	±10	±15	8	6	8
33	C	2.2	1.3	13.2	16.5	±10	±12	8	6	8
33	B	3.5	1.3	13.2	16.5	±10	±12	8	6	8
33	A	6	1.3	13.2	16.5	±10	±15	9	6	8
47	C	2	1.9	18.8	23.5	±10	±12	8	6	8
47	B	3	1.9	18.8	23.5	±10	±15	8	6	8
47	A	4	1.9	18.8	23.5	±10	±15	15	10	12
68	E	1.1	2.7	27.2	34	±10	±12	8	6	8
68	C	2	2.7	27.2	34	±10	±12	8	6	8
68	B	4.2	2.7	27.2	34	±10	±15	8	6	8
68	A	5	2.7	27.2	34	±10	±15	22	15	18
100	E	0.9	4	40	50	±10	±12	10	8	10
100	C	1.5	4	40	50	±10	±12	10	8	10
100	B	2	4	40	50	±10	±15	15	10	12
100	A	6	4	40	50	±10	±15	30	20	24
150	F	0.6	6	60	75	±10	±12	12	10	12
150	E	1	6	60	75	±10	±12	10	8	10
150	C	1.5	6	60	75	±10	±15	10	8	10
150	B	3	6	60	75	±10	±15	18	12	15
220	F	0.5	8.8	88	110	±10	±12	12	10	12
220	E	1	8.8	88	110	±10	±12	10	8	10
220	C	1.5	8.8	88	110	±10	±15	10	8	10
220	B	2	8.8	88	110	±10	±15	22	15	18
330	F	0.5	13.2	132	165	±12	±18	15	12	15
330	H	0.7	13.2	132	165	±10	±12	12	10	12
330	E	0.9	13.2	132	165	±10	±12	12	10	12
330	C	1.7	13.2	132	165	±10	±15	15	10	12
470	F	0.4	18.8	188	235	±12	±18	15	12	15
470	H	0.7	18.8	188	235	±10	±12	12	10	12
470	E	0.7	18.8	188	235	±10	±15	12	10	12
680	F	0.3	27.2	272	340	±15	±20	20	14	20
680	H	0.7	27.2	272	340	±10	±15	15	12	15
680	E	0.7	27.2	272	340	±10	±15	21	14	17
1000	F	0.2	40	400	500	±15	±20	20	14	20
1000	H	0.7	40	400	500	±10	±15	21	14	17
额定电压6.3 (6)V (类别电压4V)										
2.2	A	8	0.5	5	6.3	±10	±12	8	6	8
3.3	A	8	0.5	5	6.3	±10	±12	8	6	8
4.7	A	8	0.5	5	6.3	±10	±12	8	6	8
6.8	B	4.5	0.5	5	6.3	±10	±12	8	6	8
6.8	A	8	0.5	5	6.3	±10	±12	8	6	8
10	B	3.5	0.6	6.3	7.9	±10	±12	8	6	8
10	A	8	0.6	6.3	7.9	±10	±12	8	6	8
15	C	3	0.9	9.4	11.8	±10	±12	8	6	8
15	B	5	0.9	9.4	11.8	±10	±12	8	6	8
15	A	6	0.9	9.4	11.8	±10	±12	8	6	8



续表2

标称 电容量 μF	外壳 代号	等效 串联电阻 max 100KHz 25°C Ω	直流漏电流max μA			电容量变化范围 %		损耗角正切max %		
			+25°C	+85°C	+125°C	-55°C +85°C	+125°C	-55°C	+25°C	+85°C +125°C
额定电压6.3 (6)V (类别电压4V)										
22	C	2.2	1.4	13.9	17.3	± 10	± 12	8	6	8
22	B	5	1.4	13.9	17.3	± 10	± 12	8	6	8
22	A	6	1.4	13.9	17.3	± 10	± 15	8	6	8
33	C	2.5	2.1	20.8	26	± 10	± 12	8	6	8
33	B	3.5	2.1	20.8	26	± 10	± 15	8	6	8
33	A	5	2.1	20.8	26	± 10	± 15	15	10	12
47	E	1.1	3	29.6	37	± 10	± 12	8	6	8
47	C	2	3	29.6	37	± 10	± 12	8	6	8
47	B	3	3	29.6	37	± 10	± 15	8	6	8
47	A	5	3	29.6	37	± 10	± 15	18	12	15
68	E	0.9	4.3	42.8	53.5	± 10	± 12	8	6	8
68	C	2	4.3	42.8	53.5	± 10	± 12	8	6	8
68	B	1.5	4.3	42.8	53.5	± 10	± 15	12	8	10
100	F	0.6	6.3	63	78	± 10	± 12	12	10	12
100	E	1.2	6.3	63	78.7	± 10	± 12	10	8	10
100	C	1.5	6.3	63	78.7	± 10	± 15	10	8	10
100	B	5	6.3	63	78.7	± 10	± 15	22	15	18
150	F	0.5	9.5	95	118	± 10	± 12	12	10	12
150	E	1	9.5	94.5	118	± 10	± 12	10	8	10
150	C	1.5	9.5	94.5	118	± 10	± 15	10	8	10
150	B	2.8	9.5	94.5	118	± 10	± 15	30	20	24
220	F	0.5	13.9	139	173	± 10	± 12	12	10	12
220	H	0.7	13.9	139	173	± 10	± 12	10	8	10
220	E	1	13.9	139	173	± 10	± 12	10	8	10
220	C	2.4	13.9	139	173	± 10	± 15	15	10	12
330	F	0.4	20.8	208	260	± 12	± 18	15	12	15
330	H	0.9	20.8	208	260	± 10	± 12	12	10	12
330	E	0.9	20.8	208	260	± 10	± 15	12	10	12
330	C	1.8	20.8	208	260	± 10	± 15	22	15	18
470	F	0.4	29.6	296	370	± 12	± 18	15	12	15
470	H	0.7	29.6	296	370	± 10	± 15	12	10	12
470	E	0.9	29.6	296	370	± 10	± 15	18	12	15
680	F	0.3	42.8	428	535	± 15	± 20	20	14	20
680	H	0.9	42.8	428	535	± 10	± 15	18	12	15
额定电压10V (类别电压6.3V)										
1.5	A	8	0.5	5	6.3	± 10	± 12	8	6	8
2.2	A	8	0.5	5	6.3	± 10	± 12	8	6	8
3.3	A	9	0.5	5	6.3	± 10	± 12	8	6	8
4.7	C	3.0	0.5	5	6.3	± 10	± 12	8	6	8
4.7	B	4.5	0.5	5	6.3	± 10	± 12	8	6	8
4.7	A	8	0.5	5	6.3	± 10	± 12	8	6	8
6.8	B	3.5	0.7	6.8	8.5	± 10	± 12	8	6	8
6.8	A	8	0.7	6.8	8.5	± 10	± 15	8	6	8
10	C	3	1	10	12.5	± 10	± 12	8	6	8
10	B	6	1	10	12.5	± 10	± 12	8	6	8
10	A	8	1	10	12.5	± 10	± 15	8	6	8
15	C	2.5	1.5	15	18.7	± 10	± 12	8	6	8
15	B	5	1.5	15	18.7	± 10	± 12	8	6	8
15	A	8	1.5	15	18.7	± 10	± 15	12	8	10
22	C	1.6	2.2	22	27.5	± 10	± 12	8	6	8
22	B	5	2.2	22	27.5	± 10	± 15	8	6	8
22	A	10	2.2	22	27.5	± 10	± 15	15	10	12
33	E	1.1	3.3	33	41.2	± 10	± 12	8	6	8
33	C	2.5	3.3	33	41.2	± 10	± 12	8	6	8
33	B	4	3.3	33	41.2	± 10	± 15	8	6	8



续表2

标称 电容量 μF	外壳 代号	等效 串联电阻 max 100KHz 25°C Ω	直流漏电流max μA			电容量变化范围 %		损耗角正切max %		
			+25°C	+85°C	+125°C	-55°C +85°C	+125°C	-55°C	+25°C	+85°C +125°C
额定电压10V (类别电压6.3V)										
47	E	0.9	4.7	47	58.7	± 10	± 12	8	6	8
47	C	2	4.7	47	58.7	± 10	± 15	8	6	8
47	B	2.4	4.7	47	58.7	± 10	± 15	12	8	10
68	F	0.6	6.8	68	85	± 10	± 12	12	10	12
68	E	1.5	6.8	68	85	± 10	± 12	8	6	8
68	C	2	6.8	68	85	± 10	± 15	8	6	8
68	B	5	6.8	68	85	± 10	± 15	15	10	12
100	F	0.5	10	100	125	± 10	± 12	12	10	12
100	H	0.8	10	100	125	± 10	± 12	10	8	10
100	E	1.2	10	100	125	± 10	± 12	10	8	10
100	C	1.7	10	100	125	± 10	± 15	10	8	10
100	B	4.0	10	100	125	± 10	± 15	22	15	18
150	F	0.5	15	150	187	± 10	± 12	12	10	12
150	H	0.8	15	150	187	± 10	± 12	10	8	10
150	E	1	15	150	187	± 10	± 15	10	8	10
150	C	2	15	150	187	± 10	± 15	15	10	12
220	F	0.4	22	220	275	± 10	± 12	12	10	12
220	H	1	22	220	275	± 10	± 12	10	8	10
220	E	1	22	220	275	± 10	± 15	10	8	10
330	F	0.4	33	330	412	± 12	± 18	15	12	15
330	H	0.9	33	330	412	± 10	± 15	12	10	12
330	E	1.2	33	330	412	± 10	± 15	15	10	12
470	F	0.3	47	470	588	± 15	± 20	20	14	20
470	H	0.5	47	470	587	± 10	± 15	15	10	12
额定电压16 (15) V (类别电压10V)										
1.0	A	10	0.5	5	6.3	± 10	± 12	6	4	6
1.5	A	8	0.5	5	6.3	± 10	± 12	8	6	8
2.2	A	12	0.5	5	6.3	± 10	± 12	8	6	8
3.3	B	5.5	0.5	5	6.3	± 10	± 12	8	6	8
3.3	A	9	0.5	5	6.3	± 10	± 12	8	6	8
4.7	B	4	0.8	7.5	9.4	± 10	± 12	8	6	8
4.7	A	8	0.8	7.5	9.4	± 10	± 15	8	6	8
6.8	C	3.6	1.1	10.9	13.6	± 10	± 12	8	6	8
6.8	B	6	1.1	10.9	13.6	± 10	± 12	8	6	8
6.8	A	9	1.1	10.9	13.6	± 10	± 15	8	6	8
10	C	2.5	1.6	16	20	± 10	± 12	8	6	8
10	B	6	1.6	16	20	± 10	± 15	8	6	8
10	A	10	1.6	16	20	± 10	± 15	12	8	10
15	C	1.8	2.4	24	30	± 10	± 12	8	6	8
15	B	5	2.4	24	30	± 10	± 15	8	6	8
15	A	10	2.4	24	30	± 12	± 18	18	12	15
22	E	1.1	3.5	35.2	44	± 10	± 12	8	6	8
22	C	3	3.5	35.2	44	± 10	± 12	8	6	8
22	B	5	3.5	35.2	44	± 10	± 15	9	6	8
22	A	10	3.5	35	44	± 12	± 18	18	12	18
33	E	0.9	5.3	52.8	66	± 10	± 12	8	6	8
33	C	2.5	5.3	52.8	66	± 10	± 15	8	6	8
33	B	5	5.3	52.8	66	± 12	± 18	18	12	15
47	F	0.6	7.5	75	93	± 10	± 12	12	10	12
47	E	1.5	7.5	75.2	94	± 10	± 15	8	6	8
47	C	2	7.5	75.2	94	± 10	± 15	8	6	8
47	B	4	7.5	75.2	94	± 15	± 18	18	12	15
68	F	0.5	10.9	109	136	± 10	± 12	12	10	12
68	E	1.5	10.9	109	136	± 10	± 12	8	6	8
68	C	3	10.9	109	136	± 10	± 15	12	8	10



续表2

标称 电容量 μF	外 壳 代 号	等效 串联电阻 max 100KHz 25°C Ω	直流漏电流max μA			电容量变化范围 %		损耗角正切max %		
			+25°C	+85°C	+125°C	-55°C +85°C	+125°C	-55°C	+25°C	+85°C +125°C
额定电压16 (15) V (类别电压10)										
100	F	0.5	16	160	200	± 10	± 12	12	10	12
100	H	0.8	16	160	200	± 10	± 12	10	8	10
100	E	1.2	16	160	200	± 10	± 15	10	8	10
100	C	3	16	160	200	± 15	± 18	15	10	12
150	F	0.4	24	240	300	± 10	± 12	12	10	12
150	H	1	24	240	300	± 10	± 15	10	8	10
150	E	1.8	24	240	300	± 10	± 15	15	10	12
220	F	0.4	35.2	352	440	± 10	± 15	16	10	16
220	H	1	35.2	352	440	± 10	± 15	15	10	12
330	F	0.3	52.8	530	663	± 15	± 20	20	12	20
330	H	0.8	53	528	660	± 15	± 20	15	12	15
额定电压20V (类别电压13V)										
0.68	A	12	0.5	5	6.3	± 10	± 12	6	4	6
1.0	A	10	0.5	5	6.3	± 10	± 12	6	4	6
1.5	A	16	0.5	5	6.3	± 10	± 12	8	6	8
2.2	B	5	0.5	5	6.3	± 10	± 12	8	6	8
2.2	A	12	0.5	5	6.3	± 10	± 12	8	6	8
3.3	B	4	0.7	6.6	8.2	± 10	± 12	8	6	8
3.3	A	9	0.7	6.6	8.2	± 10	± 15	8	6	8
4.7	C	3	0.9	9.4	11.7	± 10	± 12	8	6	8
4.7	B	6	0.9	9.4	11.7	± 10	± 12	8	6	8
4.7	A	10	0.9	9.4	11.7	± 10	± 15	9	6	8
6.8	C	2.4	1.4	13.6	17	± 10	± 12	8	6	8
6.8	B	6	1.4	13.6	17	± 10	± 15	8	6	8
6.8	A	12	1.4	13.6	17	± 10	± 15	12	8	10
10	C	4	2	20	25	± 10	± 12	8	6	8
10	B	6	2	20	25	± 10	± 15	8	6	8
15	E	1.1	3	30	37.5	± 10	± 12	8	6	8
15	C	4	3	30	37.5	± 10	± 12	8	6	8
15	B	6	3	30	37.5	± 10	± 15	9	6	8
22	E	0.9	4.4	44	55	± 10	± 12	8	6	8
22	C	3	4.4	44	55	± 10	± 15	8	6	8
22	B	2.0	4.4	44	55	± 10	± 12	8	6	8
33	F	0.6	6.6	66	82.5	± 10	± 12	12	10	12
33	E	1.5	6.6	66	82.5	± 10	± 12	8	6	8
33	C	3	6.6	66	82.5	± 10	± 15	9	6	8
47	F	0.5	9.4	94	117	± 10	± 12	12	10	12
47	H	0.8	9.4	94	117	± 10	± 12	8	6	8
47	E	1.5	9.4	94	117	± 10	± 12	8	6	8
47	C	2	9.4	94	117	± 10	± 15	12	8	10
68	F	0.5	13.6	136	170	± 10	± 12	12	10	12
68	H	0.8	13.6	136	170	± 10	± 12	8	6	8
68	E	1.5	13.6	136	170	± 10	± 15	8	6	8
100	F	0.5	20	200	250	± 10	± 12	12	10	12
100	H	1	20	200	250	± 10	± 15	10	8	10
100	E	2	20	200	250	± 10	± 15	12	8	10
150	F	0.5	30	300	375	± 15	± 20	20	10	20
150	H	1.5	30	300	375	± 10	± 15	15	10	12
220	F	0.5	44	440	550	± 15	± 20	20	12	20
额定电压25V (类别电压16V)										
0.15	A	21	0.5	5	6.3	± 10	± 12	6	4	6
0.33	A	15	0.5	5	6.3	± 10	± 12	6	4	6
0.47	A	14	0.5	5	6.3	± 10	± 12	6	4	6

续表2

标称 电容量 μF	外壳 代号	等效 串联电阻 max 100KHz 25°C Ω	直流漏电流max μA			电容量变化范围 %		损耗角正切max %		
			+25°C	+85°C	+125°C	-55°C +85°C	+125°C	-55°C	+25°C	+85°C +125°C
额定电压25V (类别电压16V)										
0.68	A	17	0.5	5	6.3	± 10	± 12	6	4	6
1.0	B	6.5	0.5	5	6.3	± 10	± 12	6	4	6
1.0	A	16	0.5	5	6.3	± 10	± 12	6	4	6
1.5	B	6.5	0.5	5	6.3	± 10	± 12	8	6	8
1.5	A	16	0.5	5	6.3	± 10	± 12	8	6	8
2.2	C	5	0.6	5.5	6.9	± 10	± 12	8	6	8
2.2	B	8	0.6	5.5	6.9	± 10	± 12	8	6	8
2.2	A	16	0.6	5.5	6.9	± 10	± 15	9	6	8
3.3	C	4	0.8	8.2	10.3	± 10	± 12	8	6	8
3.3	B	7	0.8	8.2	10.3	± 10	± 12	8	6	8
3.3	A	9	0.8	8.2	10.3	± 12	± 20	9	6	8
4.7	C	2.5	1.2	11.7	14.7	± 10	± 12	8	6	8
4.7	B	6	1.2	11.7	14.7	± 10	± 15	8	6	8
6.8	C	3	1.7	17	21.2	± 10	± 12	8	6	8
6.8	B	6	1.7	17	21.2	± 10	± 15	8	6	8
10	E	1.2	2.5	25	31.2	± 10	± 12	8	6	8
10	C	4	2.5	25	31.2	± 10	± 12	8	6	8
10	B	6	2.5	25	31.2	± 12	± 20	8	6	8
15	E	1.5	3.8	37.5	46.9	± 10	± 12	8	6	8
15	C	4	3.8	37.5	46.9	± 10	± 15	8	6	8
22	F	0.7	5.5	55	68.7	± 10	± 12	12	10	12
22	E	1.8	5.5	55	68.7	± 10	± 12	8	6	8
22	C	3.5	5.5	55	68.7	± 12	± 20	9	6	8
33	F	0.6	8.3	83	103	± 10	± 12	12	10	12
33	H	0.9	8.3	82.5	103	± 10	± 12	8	6	8
33	E	1.5	8.3	82.5	103	± 10	± 15	8	6	8
47	F	0.6	11.8	118	147	± 10	± 12	12	10	12
47	H	1.2	11.7	117	147	± 10	± 15	8	6	8
47	E	1.5	11.7	117	147	± 12	± 20	8	6	8
68	F	0.5	17	170	213	± 15	± 20	16	10	16
68	H	1.2	17	170	213	± 12	± 20	8	6	8
68	E	2	17	170	213	± 15	± 20	8	6	8
100	F	0.5	25	250	313	± 15	± 20	20	12	20
100	H	0.9	25	250	313	± 12	± 20	12	8	10
额定电压35 (32) V (类别电压20V)										
0.10	A	34	0.5	5	6.3	± 10	± 12	6	4	6
0.15	A	21	0.5	5	6.3	± 10	± 12	6	4	6
0.22	A	18	0.5	5	6.3	± 10	± 12	6	4	6
0.33	A	15	0.5	5	6.3	± 10	± 12	6	4	6
0.47	B	10	0.5	5	6.3	± 10	± 12	6	4	6
0.47	A	18	0.5	5	6.3	± 10	± 12	6	4	6
0.68	B	8	0.5	5	6.3	± 10	± 12	6	4	6
0.68	A	17	0.5	5	6.3	± 10	± 12	6	4	6
1.0	B	6.5	0.5	5	6.3	± 10	± 12	6	4	6
1.0	A	16	0.5	5	6.3	± 10	± 12	6	4	6
1.5	C	4.5	0.5	5	6.3	± 10	± 12	8	6	8
1.5	B	12	0.5	5	6.3	± 10	± 12	8	6	8
1.5	A	16	0.5	5	6.3	± 12	± 20	9	6	8
2.2	C	3.5	0.8	7.7	9.6	± 10	± 12	8	6	8
2.2	B	8	0.8	7.7	9.6	± 10	± 12	8	6	8
2.2	A	16	0.8	7.7	9.6	± 10	± 12	6	4	6
3.3	C	2.5	1.2	11.5	14.4	± 10	± 12	8	6	8
3.3	B	7	1.2	11.5	14.4	± 12	± 20	8	6	8



续表2

标称 电容量 μF	外壳 代号	等效 串联电阻 max 100KHz 25°C Ω	直流漏电流max μA			电容量变化范围 %		损耗角正切max %		
			+25°C	+85°C	+125°C	-55°C +85°C	+125°C	-55°C	+25°C	+85°C +125°C
额定电压35 (32) V (类别电压20V)										
4.7	E	1.5	1.6	16.4	20.5	± 10	± 12	8	6	8
4.7	C	5	1.6	16.4	20.5	± 10	± 12	8	6	8
4.7	B	8	1.6	16.4	20.5	± 10	± 12	8	6	8
6.8	E	1.3	2.4	23.8	29.7	± 10	± 12	8	6	8
6.8	C	3	2.4	23.8	29.7	± 10	± 12	8	6	8
10	H	1	3.5	35	43.7	± 10	± 12	8	6	8
10	E	1.1	3.5	35	43.7	± 10	± 12	8	6	8
10	C	3.5	3.5	35	43.7	± 10	± 15	9	6	8
15	F	0.7	5.3	52.5	65.6	± 10	± 12	12	10	12
15	H	1.1	5.3	52.5	65.6	± 10	± 12	8	6	8
15	E	2	5.3	52.5	65.6	± 10	± 15	8	6	8
22	F	0.6	7.7	77	96.2	± 10	± 12	12	10	12
22	H	1	7.7	77	96.2	± 10	± 15	8	6	8
22	E	1.8	7.7	77	96.2	± 10	± 15	8	6	8
33	F	0.6	11.6	116	145	± 15	± 20	16	10	16
33	H	1.2	11.6	116	145	± 10	± 15	8	6	8
33	E	2	11.6	116	145	± 12	± 20	9	6	8
47	F	0.6	16.5	165	206	± 15	± 20	20	12	20
47	H	1.2	16.5	165	206	± 12	± 20	8	6	8
额定电压 40V (类别电压 25V)										
0.10	A	24	0.5	5	6.3	± 10	± 12	6	4	6
0.15	A	21	0.5	5	6.3	± 10	± 12	6	4	6
0.22	A	18	0.5	5	6.3	± 10	± 12	6	4	6
0.33	B	15	0.5	5	6.3	± 10	± 12	6	4	6
0.33	A	20	0.5	5	6.3	± 10	± 12	6	4	6
0.47	B	10	0.5	5	6.3	± 10	± 12	6	4	6
0.47	A	18	0.5	5	6.3	± 10	± 15	6	4	6
0.68	C	8	0.5	5	6.3	± 10	± 12	6	4	6
0.68	B	15	0.5	5	6.3	± 10	± 12	6	4	6
0.68	A	18	0.5	5	6.3	± 10	± 15	6	4	6
1.0	C	6.5	0.5	5	6.3	± 10	± 12	6	4	6
1.0	B	10	0.5	5	6.3	± 10	± 15	6	4	6
1.0	A	12	0.5	5	6.3	± 10	± 15	6	4	6
1.5	C	4.5	0.6	6	7.5	± 10	± 12	8	6	8
1.5	B	10	0.6	6	7.5	± 10	± 15	8	6	8
2.2	E	3.5	0.9	8.8	11	± 10	± 12	8	6	8
2.2	C	7	0.9	8.8	11	± 10	± 12	8	6	8
3.3	E	2.5	1.3	13.2	16.5	± 10	± 12	8	6	8
3.3	C	5	1.3	13.2	16.5	± 10	± 12	8	6	8
4.7	E	1.5	1.9	18.8	23.5	± 10	± 12	8	6	8
4.7	C	6	1.9	18.8	23.5	± 10	± 15	8	6	8
6.8	E	1.3	2.7	27.2	34	± 10	± 12	8	6	8
6.8	C	2	2.7	27.2	34	± 10	± 15	9	6	8
10	F	0.9	4	40	50	± 10	± 12	12	10	12
10	H	1.3	4	40	50	± 10	± 12	8	6	8
10	E	2	4	40	50	± 10	± 15	8	6	8
15	F	0.7	6	60	75	± 10	± 12	12	10	12
15	H	1.8	6	60	75	± 10	± 15	8	6	8
15	E	2.5	6	60	75	± 10	± 15	9	6	8
22	F	0.7	8.8	88	110	± 15	± 20	12	10	12
22	H	1.5	8.8	88	110	± 10	± 15	12	8	10



续表2

标称 电容量 μF	外壳 代号	等效 串联电阻 max 100KHz 25°C Ω	直流漏电流max μA			电容量变化范围 %		损耗角正切max %		
			+25°C	+85°C	+125°C	-55°C +85°C	+125°C	-55°C	+25°C	+85°C +125°C
额定电压 50V (类别电压 32V)										
0.10	A	22	0.5	5	6.3	± 10	± 12	6	4	6
0.15	B	17	0.5	5	6.3	± 10	± 12	6	4	6
0.15	A	28	0.5	5	6.3	± 10	± 12	6	4	6
0.22	B	14	0.5	5	6.3	± 10	± 12	6	4	6
0.22	A	18	0.5	5	6.3	± 10	± 15	6	4	6
0.33	B	12	0.5	5	6.3	± 10	± 12	6	4	6
0.33	A	20	0.5	5	6.3	± 10	± 15	6	4	6
0.47	C	8	0.5	5	6.3	± 10	± 12	6	4	6
0.47	B	16	0.5	5	6.3	± 10	± 12	6	4	6
0.47	A	20	0.5	5	6.3	± 10	± 15	6	4	6
0.68	C	7	0.5	5	6.3	± 10	± 12	6	4	6
0.68	B	15	0.5	5	6.3	± 10	± 15	6	4	6
0.68	A	20	0.5	5	6.3	± 10	± 15	6	4	6
1.0	C	6	0.5	5	6.3	± 10	± 12	6	4	6
1.0	B	10	0.5	5	6.3	± 10	± 15	6	4	6
1.5	E	4	0.8	7.5	9.4	± 10	± 12	8	6	8
1.5	C	8	0.8	7.5	9.4	± 10	± 12	8	6	8
2.2	E	2.5	1.1	11	13.7	± 10	± 12	8	6	8
2.2	C	7	1.1	11	13.7	± 10	± 12	8	6	8
3.3	E	2	1.7	16.5	20.6	± 10	± 12	8	6	8
3.3	C	5	1.7	16.5	20.6	± 10	± 15	8	6	8
4.7	H	1.2	2.4	23.5	29.4	± 10	± 12	8	6	8
4.7	E	1.5	2.4	23.5	29.4	± 10	± 12	8	6	8
4.7	C	2	2.4	23.5	29.4	± 10	± 15	8	6	8
6.8	F	1.0	3.4	34	42	± 10	± 12	12	10	12
6.8	H	1.5	3.4	34	42.5	± 10	± 12	8	6	8
6.8	E	2	3.4	34	42.5	± 10	± 15	8	6	8
10	F	0.9	5	50	62	± 10	± 12	12	10	12
10	H	1.8	5	50	62.5	± 10	± 15	8	6	8
10	E	2	5	50	62.5	± 10	± 15	8	6	8
15	F	0.7	7.5	75	94	± 10	± 15	12	10	12
15	H	1.8	7.5	75	93.7	± 10	± 15	8	6	8
22	F	0.7	11	110	137	± 10	± 15	12	10	12
22	H	1.5	11	130	137	± 10	± 15	8	6	8

注: 1.电容量、损耗角正切测量条件: 测量电压: $U_L=2.2_{-1.0}^0 V$, $U_L=1.0_{-0.5}^0 V$ (有效值); 测量频率: 100Hz。
 2.漏电流测量条件: 施加额定电压测量, 充电时间不超过5min (测量125°C漏电流时, 施加类别电压测量)。
 3.等效串联电阻 (ESR) 测量条件: 测量频率: $(100 \pm 5) KHz$; $U_L=2.2_{-1.0}^0 V$, $U_L=1.0_{-0.5}^0 V$ (有效值)。