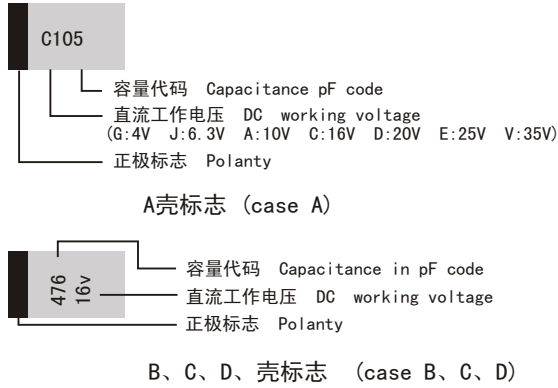


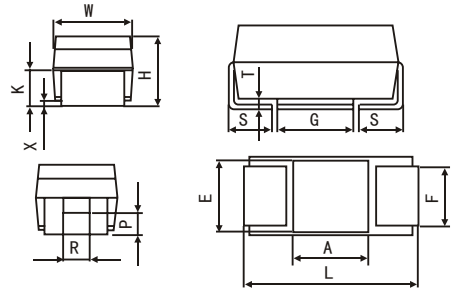
CA45型 片式固体电解质钽电容器  
SERIES CA45 CHIP SOLID TANTALUM ELECTROLYTIC CAPACITORS

CA45 型产品简介 FEATURES

- 模压片式固体电解质钽电容器
- 适用于蜂窝电话、笔记本电脑、摄影、工业等各种表面安装电路及其它电子类产品
- Molded chip solid tantalum electrolytic capacitor
- Used for cellular Telephones, personal computers Photographs. It's used in SMT circuit and others electronic product applications.



产品外形尺寸图



产品外形尺寸 DIMENSIONS

μ ¥ ĩ mm E °

壳号Case size	L	W	H	k±0.2	F±0.1	S±0.3	X	P	R	T	G	E
P	3.2±0.2	1.6±0.2	1.2±0.2	0.9	1.2	0.8	0.10±0.10	0.4	0.4	0.13	1.2	1.5
A	3.2±0.2	1.6±0.2	1.6±0.2	0.9	1.2	0.8	0.10±0.10	0.4	0.4	0.13	1.2	1.5
B	3.5±0.2	2.8±0.2	1.9±0.2	1.1	2.2	0.8	0.10±0.10	0.5	1.0	0.13	1.5	2.6
C	6.0±0.2	3.2±0.2	2.5±0.2	1.4	2.2	1.3	0.10±0.10	0.9	1.0	0.13	3.0	3.0
D	7.3±0.2	4.3±0.3	2.8±0.3	1.5	2.4	1.3	0.10±0.10	0.9	1.0	0.13	4.3	4.1
E	7.3±0.2	4.3±0.3	4.0±0.3	1.5	2.4	1.3	0.10±0.10	0.9	1.0	0.13	4.3	4.1

尺寸规格、额定电压、浪涌电压、降额电压及标称容量

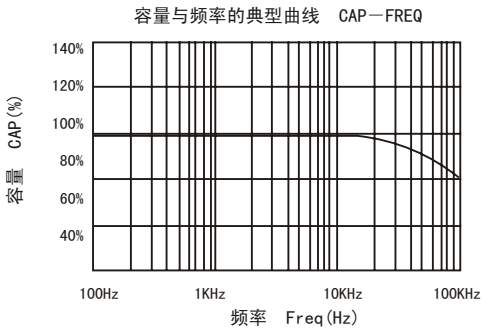
STANDARD SIZE, RATED VOLTAGE, SURGE VOLTAGE AT 85°C AND DERATED VOLTAGE AT 125°C

额定电压 Rated voltage (v)		4	6.3	10	16	20	25	35	50												
浪涌电压 85°C surge voltage (v)		5.2	8	13	20	26	32	46	65												
降额电压 (125°C) 125°C CD Derated voltage (v)		2.5	4	6.3	10	13	16	22	32												
Cap/(μF)	Code	外壳代号 (case code)																			
		STD	EXT	STD	EXT	STD	EXT	STD	EXT	STD	EXT	STD	EXT	STD	EXT	STD	EXT				
0.1	104															A	P	A			
0.15	154															P	A	P	B	A	
0.22	224															P	A	P	B	A/B	
0.33	334															A	P	A	P	B	B
0.47	474									A	P	A	P	B	A	C	B	A	C	B/C	
0.68	684									A	P	A	P	B	A	B	A	B	A	C	B/C
1	105					A	P	A	P	A	A	B	A	B	A	B	A	B	A/B	C	B/C
1.5	155			A	P	A	P	A	P	B	A	B	A	C	A	B	A	C	A/B	D	C
2.2	225	A	P	A	P	A	P	B	A	B	A/B	C	A/B	C	A/B	C	A/B	C	A/B/C	D	C/D
3.3	335	A	P	A	P	B	A	B	A	B	A/B	C	A/B/C	C	A/B/C	C	B/C	D	B/C	D	C/D
4.7	475	A	P	B	A	B	A	B	A	C	A/B/C	C	B/C	D	B/C	D	C	D	C/D		
6.8	685	B	A	B	A	B	A	C	A/B	C	B/C	D	B/C	D	C	D	C	D	C/D		
10	106	B	A	B	A	C	A/B	C	A/B	D	B/C	D	C	D	C	D	C	D	C/D/E		D/E
15	156	B	A	C	A/B	C	A/B/G	C	B/C	D	B/C/D	D	C/D						C/D		E
22	226	C	A/B	C	A/B	C	A/B/G	D	B/C	D	B/C/D										
33	336	C	A/B	D	A/B/C	D	B/C	D	B/C												
47	476	D	A/B/C	D	B/C	D	B/C		C/D												
68	686	D	B/C	D	B/C		C/D		C/D												
100	107	D	C	D	B/C		C/D														
150	157		B/C/D		C/D																
220	227		B/C/D		C/D/E																

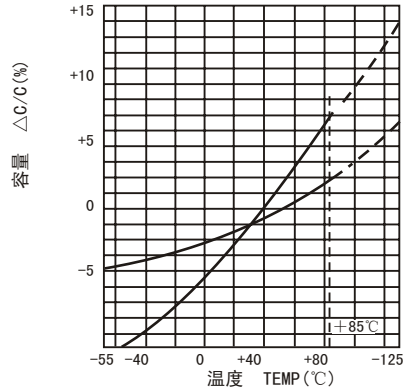
CA45产品特性表  
SPECIFICATIONS

项目 Item	主要特性 Performance Characteristics			
使用温度范围 Operating Temperature Range	-55℃~+125℃ (>+85℃降额使用) -55℃~+125℃ (applied derating voltage at greater than +85℃)			
标称容量允许偏差 Capacitance Tolerance	±20%(M), ±10%(K) at 120Hz +25℃			
损耗角正切值 (tg δ) Dissipation Factor	测试频率120Hz Test frequency 120Hz 0.1~1μF 4%Max 1.5~68μF 6% Max. 100μF~ 8% Max.			
漏电流 Leakage current	施加额定电压1分钟: I ≤ 0.01CV或0.5μA (取较大者) 25℃ After 1minute's application of rated voltage, leakage current at 25℃ is not more than 0.01CV or 0.5μA, whichever is greater.	施加额定电压1分钟: I ≤ 0.1CV或5μA (取较大者) 85℃ After 1minute's application of rated voltage, leakage current at 85℃ is not more than 0.1CV or 5μA, whichever is greater.	施加额定电压1分钟: I ≤ 0.125CV或6.3μA (取较大者) 125℃ After 1minute's application of rated voltage, leakage current at 125℃ is not more than 0.125CV or 6.3μA, whichever is greater.	
标称容量随温度变化 Capacitance Change by Temperature	±10%Max. (+85℃) ±10%Max. (-55℃)		±12%Max. (+125℃)	
浪涌电压 Surge Voltage	在85℃环境中, 电容器接33Ω电阻, 加上浪涌电压, 以30秒开, 30秒关为一个周期, 共经1000个周期实验后, 电容器的性能符合下列要求: After application of Surge Voltage in series with a 33Ω resistor at the rate voltage of 30 seconds ON, 30 seconds OFF, for 1000 successive test cycles at 85℃, capacitors meet the characteristics requirements listed below.			
	容量变化 Capacitance Change	初始值的±5%以内 Within ±5% of initial value		
	损耗角正切值 Dissipation Factor	不大于初始规定值 Initial specified value or less		
	漏电流 Leakage Current	不大于初始规定值 Initial specified value or less		
耐焊接热 Resistance to Soldering Heat	将电容器端子线浸入260±5℃的锡液中距至本体2~2.5mm, 经3±0.5秒后, 电容器的性能符合下列要求: After immersing the bottom parts of capacitor bodies by 2~2.5mm in a solder pot at 260±5℃ for 3±0.5 seconds			
	容量变化 Capacitance Change	初始值的±3%以内 Within ±3% of initial value		
	损耗角正切值 Dissipation Factor	不大于初始规定值 Initial specified value or less		
	漏电流 Leakage Current	不大于初始规定值 Initial specified value or less		
耐湿性 Humidity Resistance	在40℃, 相对湿度为90~95% R.H., 经过500小时后(不充电), 电容器的性能符合下列要求: At 40℃, 90~95% R.H., For 500hours (No voltage applied).			
	容量变化 Capacitance Change	初始值的±10%以内 Within ±10% of initial value		
	损耗角正切值 Dissipation Factor	不大于初始规定值 Initial specified value or less		
	漏电流 Leakage Current	不大于初始规定值 Initial specified value or less		
高温负荷特性 Load Life	电容器接上3Ω电阻, 在+85℃环境中施加额定工作电压2000小时后, 或者在+125℃环境中施加额定工作电压2000小时后, 电容器的性能符合下列要求: After 2000 hour's application of rated voltage in series with a 3Ω resistor at 85℃ or derated voltage in series with a 3Ω resistor at 125℃, capacitance meet the characteristics requirements listed below.			
	容量变化 Capacitance Change	初始值的±10%以内 Within ±10% of initial value		
	损耗角正切值 Dissipation Factor	不大于初始规定值 Initial specified value or less		
	漏电流 Leakage Current	不大于初始规定值 Initial specified value or less		

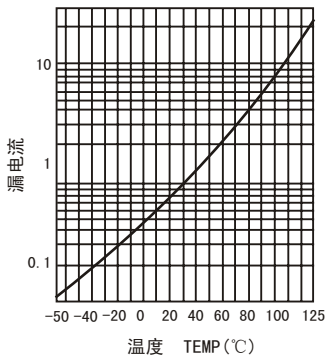
● 特性曲线图 CHARACTERISTICS CURVE



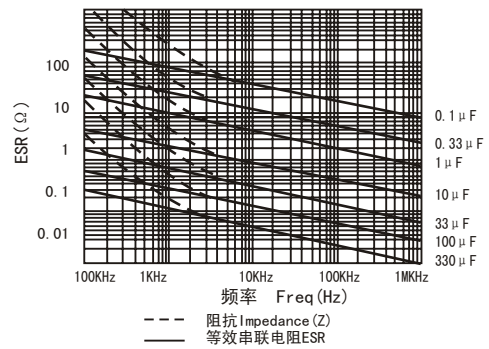
容量变化与温度的典型曲线 CAP-TEMP



漏电流与温度的关系

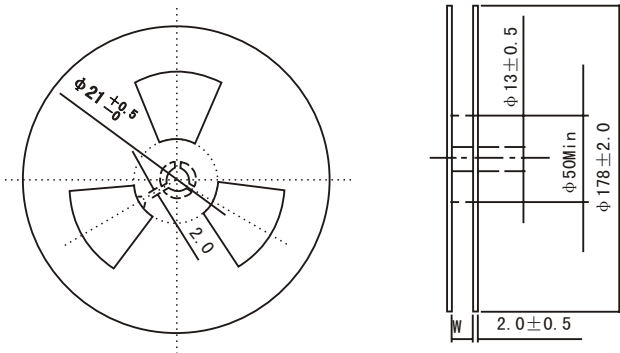


阻抗和ESR与频率的典型曲线



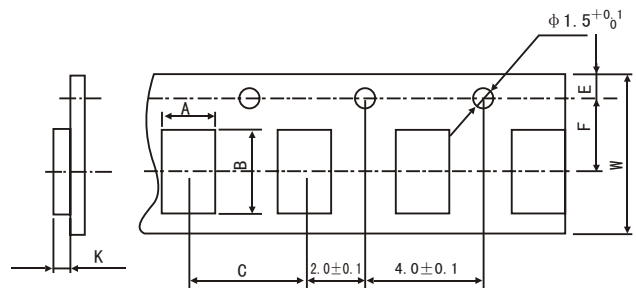
● CA45产品编带包装 TAPE PACKING

卷盘尺寸 TAPE REEL DIMENSIONS



外壳号 Case size	W ± 1.5 (mm)	每卷电容数量(支) Qty. /Reel (φ178mm)
P A B	10.0	2000
C D	14.0	500

编带包装 TAPE PACKING



外壳号 Case size	A ± 0.1	B ± 0.1	C ± 0.1	E ± 0.1	F ± 0.1	W ± 0.3	K ± 0.1
P	1.8	3.4	4.0	1.75	3.5	8.0	1.3
A	1.8	3.4	4.0	1.75	3.5	8.0	1.8
B	3.1	3.8	4.0	1.75	3.5	8.0	2.2
C	3.57	6.37	8.0	1.75	5.5	12.0	2.9
D	4.6	7.6	8.0	1.75	5.5	12.0	3.3