

CA45型片式固體電解質鉭電容器

CA45 Series Solid Electrolytic Chip Tantalum Capacitor

產品介紹

CA45系列電容器是燒結陽極，樹脂模壓封裝的片式固體電解鉭電容器，體積小、重量輕、可靠性高、性能優良。適用於通訊、計算機、攝影機、移動通訊等各種表面貼裝電路。執行GB/T14122-93,Q/PWV601-2003技術標準。

Brief Introduction

CA45 Series sinter-anode, molded solid tantalum chip capacitor, small in size, high capacitance, high reliability and excellent operate performances, is used for telecommunications, computers camcorder, SMT electric circuits and so on. CA45 Series meets the requirements of standard GB/T14122-93, Q/PWV601-2003.

主要性能

- ◎溫度範圍: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ ($>85^{\circ}\text{C}$ 時施加降額定電壓使用)
- ◎電容量允許偏差: K級: $\pm 10\%$; M級: $\pm 20\%$
- ◎室溫漏電流: 25°C 時 $I_0 \leq 0.01C_R U_R$ 或 $0.5 \mu\text{A}$ (取大者)
- ◎外形尺寸: 見表1

Features

- ◎ Operating Temperature Range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C} > 85^{\circ}\text{C}$ (with rated voltage derating)
- ◎ Capacitance Tolerance :K: $\pm 10\%$; M: $\pm 20\%$
- ◎ DC Leakage at 25°C : $I_0 \leq 0.01C_R U_R$ or $0.5 \mu\text{A}$ (which is greater)
- ◎ Dimensions: See Table 1

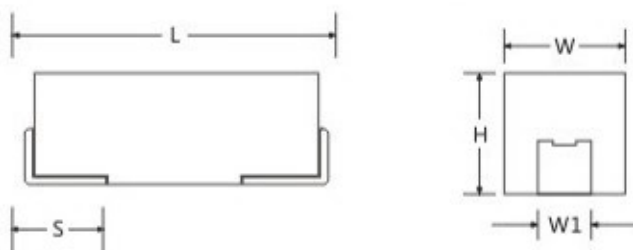


表1外形尺寸 Table 1 Dimensions

殼號 Case Size	L	W	H	S	W1
A	3.2 ± 0.2	1.6 ± 0.2	1.6 ± 0.2	0.8 ± 0.2	1.2 ± 0.2
B	3.5 ± 0.2	2.8 ± 0.2	1.9 ± 0.2	0.8 ± 0.2	2.2 ± 0.2
C	6.0 ± 0.2	3.2 ± 0.2	2.5 ± 0.2	1.3 ± 0.2	2.2 ± 0.2
D	7.3 ± 0.2	4.3 ± 0.2	2.8 ± 0.2	1.3 ± 0.2	2.4 ± 0.2
E	7.3 ± 0.2	4.3 ± 0.2	4.1 ± 0.2	1.3 ± 0.2	2.4 ± 0.2

CA45型片式固體電解質鉭電容器

CA45 Series Solid Electrolytic Chip Tantalum Capacitor

表2 電性能一覽表 Table 2 Electrical Features

額定電壓 U_R (V) Rated Voltage		4	6.3	10	16	20	25	35(32)	40	50
類別電壓 U_C (V) Derating Voltage		2.5	4	6.3	10	13	16	20	25	32
標稱電容量 Nominal Capacitance C_R (μ F)	容量代碼 Code	外殼代號 Case Size								
0.1	104							A	A	A
0.15	154							A	A	B/A
0.22	224							A	A	B/A
0.33	334						A	A	B/A	B/A
0.47	474					A	A	B/A	B/A	C/B/A
0.68	684				A	A	B/A	B/A	C/B/A	C/B
1.0	105			A	A	A	B/A	B/A	C/B	C/B
1.5	155		A	A	A	B/A	B/A	C/B	C/B	D/C
2.2	225	A	A	A	B/A	B/A	B/A	C/B	D/C	D/C
3.3	335	A	A	B/A	B/A	B/A	C/B	C/B	D/C	D/C
4.7	475	A	B/A	B/A	B/A	B/A	C/B	D/C/B	D/C	D/C
6.8	685	B/A	B/A	B/A	C/B/A	C/B	C/B	D/C	E/D	E/D
10	106	B/A	B/A	B/A	C/B/A	C/B	D/C/B	D/C	E/D	E
15	156	B/A	C/B/A	C/B/A	C/B	D/C/B	D/C	E/D	E	E
22	226	C/B/A	C/B/A	C/B/A	D/C/B	D/C	D/C	E/D	E	
33	336	C/B	C/B/A	C/B	D/C	D/C	E/D	E		
47	476	D/C/B	C/B/A	D/C/B	E/D/C	E/D	E/D			
68	686	D/C/B	D/C/B	D/C	E/D/C	E/D	E			
100	107	D/C	D/C/B	E/D/C	E/D	E	E			
150	157	E/D/C	E/D/C	E/D	E	E				
220	227	E/D/C	E/D/C	E/D	E					
330	337	E/D	E/D	E						
470	477	E/D	E							
680	687	E								

標記 Marking Specification

如:10V2.2 μ F



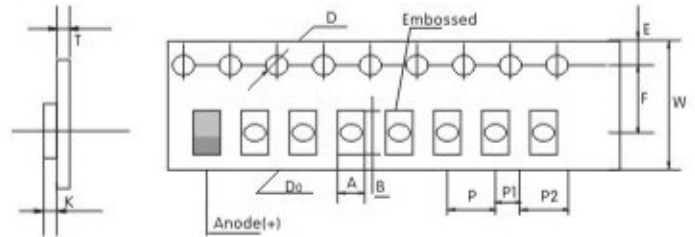
CA45型片式固體電解質鉭電容器

CA45 Series Solid Electrolytic Chip Tantalum Capacitor

包裝方式 Packing

T代表編帶包裝 T=Tape and reel
B代表散裝 B=bulk pack

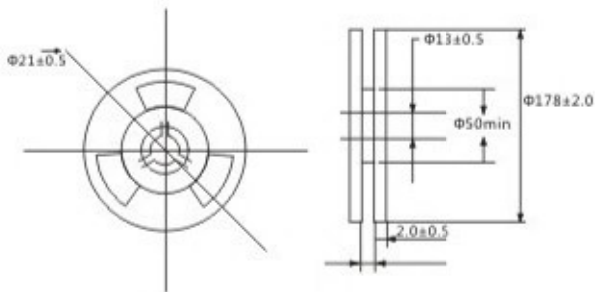
編帶包裝 Taping and Packing



載帶尺寸 Carrier Tape Dimension

殼號 Case Size	A ± 0.2	B ± 0.2	P ± 0.1	E ± 0.1	F ± 0.1	W ± 0.1
A	1.90	3.50	4.00	1.75	3.50	8.00
B	3.10	3.80	4.00	1.75	3.50	8.00
C	3.60	6.40	8.00	1.75	3.50	12.00
D	4.70	7.70	8.00	1.75	3.50	12.00
E	4.60	7.60	8.00	1.75	3.50	12.00

卷盤尺寸 Reel Dimensions



殼號 Case Size	W	每盤標準數量 Qty/reel
A、B	8.4 ^{+1.5} ₀	2000
C、D	12.4 ^{+3.0} ₀	500
E	12.4 ^{+3.0} ₀	400

訂貨方法 Order Information

C A 4 5	105	M	035	A	T
型號 Type	標稱容量代碼 Capacitance Code	容量精度 Tolerance	額定電壓 DC voltage	殼號 Case Size	包裝形式 Packaging
片式鉭電容 Chip Tantalum Capacitor	105代表 $10 \times 10^5 \text{ PF} = 1\mu\text{F}$ 105 10×10^5 (PF) this is expressed in pico farads, the first two digits are the significant figures, the third is the number of zeros to follow	K= ± 10% M= ± 20%	4V=004 6.3V=006 10V=010 16V=016 20V=020 25V=025 35V=035 40V=040 50V=050	A:3.2*1.6 B:3.5*2.8 C:6.0*3.2 D:7.3*4.3 E:7.3*4.3	T代表編裝 B代表散裝 T=Tape and reel B=bulk pack