

**Epoxy-coated Solid Electrolytic tantalum Capacitor**

**AN018C—CA42 Series--dipped type**



**Brief Introduction:**

\*sinter-anode, epoxy-coated solid electrolyte tantalum capacitors are encapsulated with flame-retardant yellow epoxy powder, marked with laser.

\*meets and exceeds the requirements of IEO Specification 384-15-3, IECQ Specification QC3002011U50003 and Technical Specification SJ/T10856-96,

\*used in military and civil applications such as TV sets, camcorders ,computers,Program--controlled electronic telephone switching systems, telephones, instruments and meters.

**Features:**

- Operating temperature Range:  
-55°C~+1 25°C; >85°C With rated voltage derating.
- Rated Voltage:See table 1
- DC leakage at 20C:  $I_o \leq 0.02 C_R U_R$  Or  $1\mu F$  (Whichever is greater).
- Dissipation factor at 20°C Please see table 3
- Capacitance range:0.047uF~680uF, see table 1
- Capacitance tolerance:  $\pm 20\%$ ;  $\pm 10\%$ ;  $\pm 5\%$ ; (for special order);
- Case sizes and dimensions, Please see table 2
- Temperature characteristics: See table 3
- We can meet lead-free requirements requested by our customers who will stated specially when placing an order.

**DIMENSIONS-Millimeters**

table2 Unit: mm

Capacitance(uF)	Capacitance Change			DF Max.				DCL Max.		
	-55°C	+85°C	+125°C	-55°C	+20°C	+85t	+125°C	+20°C	+85°C	+125°C
$\leq 1.0$	10	15	25	6	4	6	6	$I_o \leq 0.02 C_R U_R$ Or $1\mu F$ (Whichever is greeter)	10 $I_o$	12.5 $I_o$
1.5 ~ 6.8				8	6	8	8			
10 ~ 68				10	8	10	10			
100 ~ 680				12	10	12	12			

**TEMPERATURE CHARACTERISTICS**

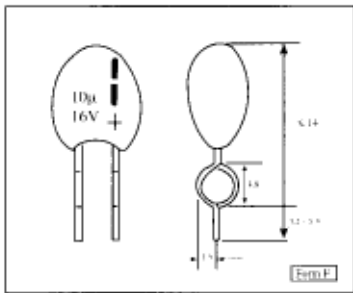
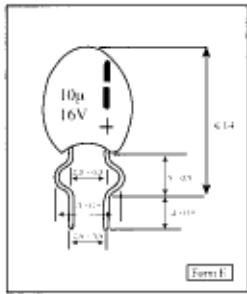
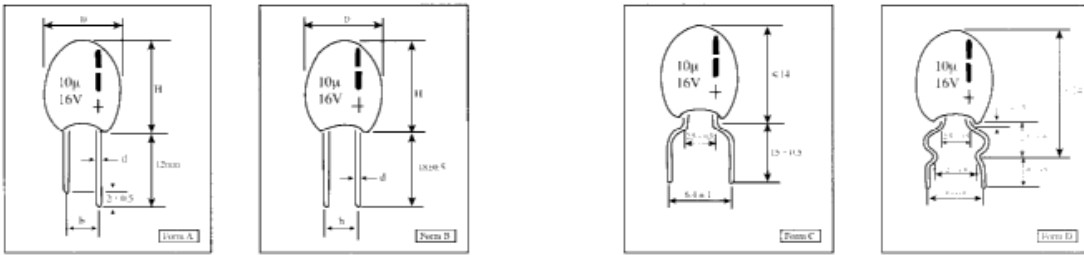
table3

Case_size	D (max)	H (max)	h( $\pm 0.5$ mm)	d( $\pm 0.5$ mm)
A	4.5	7.0	2.5	0.5
B	5.0	8.0	2.5	0.5
C	5.5	9.5	2.5	0.5
D	6.5	11.0	2.5	0.5
E	8.5	13.0	5.0	0.5
F	9.5	16.5	5.0	0.5

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**Lead Styles** (Other lead styles are available)

Unit. mm



**Rated Voltage, Nominal Capacitance and Case Sizes**

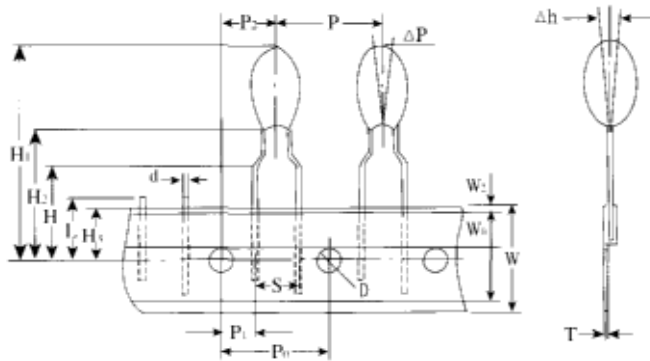
table 1-1

Rated Voltage	3	4	6.3	10	16	20	25	35	50
Voltage Derat~ng	2	2.5	4	6.3	10	13	16	20	32
(V)+85°C	4	5.2	8	13	20	26	33	46	65
Surge Voltage									
(uF) Capacitance	Case size								
0.047								A	A
0.068								A	A
0.1								A	A
0.15								A	A
0.22								A	A
0.33								A	A
0.47								A	A
0.68								A	A
1.0					A	A	A	A	B
1.5					A	A	A	A	C
2.2				A	A	A	A	B	C
3.3			A	A	A	B	B	B	D
4.7	A	A	A	A	B	B	B	C	0
6.8	A	A	A	B	B	C	C	D	E
10	A	A	B	B	B	C	C	B	F
15	A	A	B	C	C	D	D	E	F
22	B	B	C	C	C	D	0	E	F
33	B	B	C	0	B	E	E	F	
47	C	C	D	D	D	E	F	F	
68	D	D	D	D	E	F	F		
100	D	D	E	E	E	F	F		
150	D	E	F	F	F				
220	E	E	E	F					
330	E	F	F						
470	F								
680	F								

**Packaging information**

B: Bulk Pack

A: Ammo pack (per specification IEC286-2)



Designation	Symbol	Dimensions(mm)	
Pitch of component	P	12.7±10	
Feed hole pitch	P <sub>0</sub>	12.7±0.3	
Tape width	W	+1 18 -0.5	
Hold dowe tape width	W <sub>0</sub>	12±0.5	
Hole position	H <sub>3</sub>	+0.75 9 -0.5	
Hold down tape position	W <sub>2</sub>	3.0max	
Overall component height	H <sub>i</sub>	32.5max	
Component slignmeet	ΔP	±1.3max	
Feed hole diameter	D	4.0± 0.2	
Tape thickeess	T	0.5±0.2	
Component alignment	Δh	±2.0max	
Length of snipped leads	L	11 max	
Lead clinch height	H	16±0.5	
Lead wire spacing	S	2.5± 0.5	5.0±0.7
Feed hole center to wire center	P <sub>1</sub>	5.10± 0.5	3.85±0.7
Hole center to component center	P <sub>2</sub>	6.35±0.4	
Component height	H <sub>2</sub>	+2 18 -0	
Lead diameter	d	0.5±0.05	

