TANTALUM CAPACITOR

TAE SUNG

■ Details

CA42 Series sinter-anode，epoxy-coated solid electrolyte tantalum capacitors are encapsulated with flame-retardant yellow epoxy powder，marked with laser． CA42 Series meets and exceeds the requirements of IEC Specification 384-15-3， IECQ Specification QC300201／US0003 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℃～＋125℃；＞85℃ With rated voltage de rating．
- ●Rated Voltage：See table 1
- ●DC leakage at 20℃：10≤0.01CRVR or 0.5μA（Whichever is greater）
- ●Dissipation factor at 20℃: Please see Table 3
- ●Capacitance range：0.047μF－680μF, see table 1
- ●Capacitance tolerance：±20%；±10%；±5%；(for special order)
- ●Case sizes and dimensions，Please see Table 2
- ●Temperature characteristics：See Table 3

■ Dimensions-Millimeters (Table-2)

Case Sizes	D（max）	H（max）	H（±0.5mm）	d（±0.5mm）
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

■ Rated Voltage, Nominal Capacitance and Case Sizes (Table-1)

Rated Voltage（V）	3	4	6．3	10	16	20	25	35	50
voltage Derating(V)	2	2．5	4	6．3	10	13	16	20	32
Surge Voltage（V）	4	5．2	8	13	20	26	33	46	65
Capacitance（uF）	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					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	D
6.8	A	A	A	B	B	C	C	D	E
10	A	A	B	B	B	C	C	D	E
15	A	A	B	C	C	D	D	E	F
22	B	B	C	C	C	D	D	E	F
33	B	B	C	D	D	E	E	F	
47	C	C	D	D	D	E	E	F	
68	D	D	D	D	E	F	F		
100	D	D	E	E	E	F	F		
150	D	E	E	E	F				
220	E	E	E	F					
330	E	F	F						
470	F								
680	F								

■ Dimensions-Millimeters (Table-2)

Case Sizes	D（max）	H（max）	H（±0.5mm）	d（±0.5mm）
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

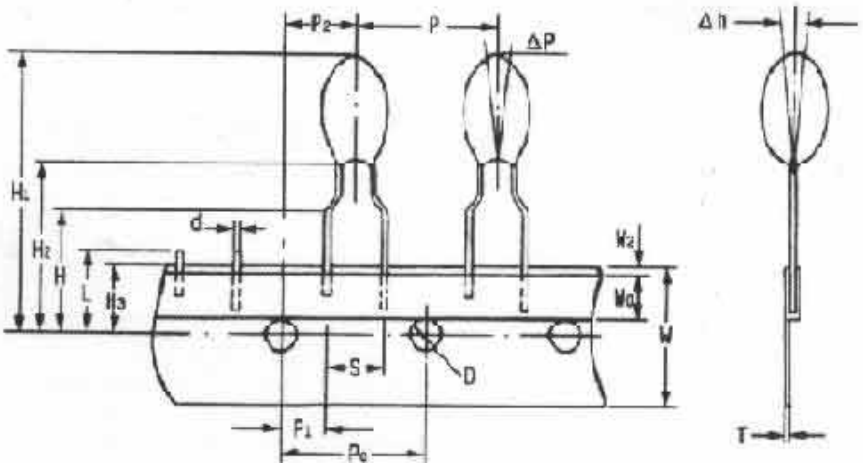
■ Temperature Characteristics (Table-3)

Capacitanc(uF)	Cap Change（%）			DF Max.（%）				DCL Max.（uA）		
	-55℃	+85℃	+125℃	-55℃	+20℃	+85℃	+125℃	+20℃	+85℃	+125℃
≤1.0	±10	±15	±25	6	4	6	6	or Io≤ 0.02CRVR1uA(whichever is greater)	10Io	12.5Io
1.5-6.8				8	6	8	8			
10-68				10	8	10	10			
100-680				12	10	12	12			

■ Packaging Information

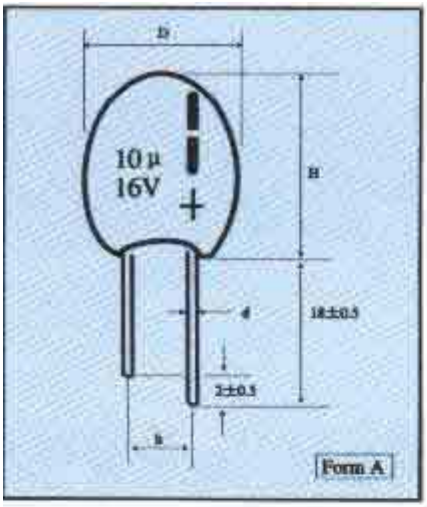
A：Ammo pack（per Specification IEC286-2）

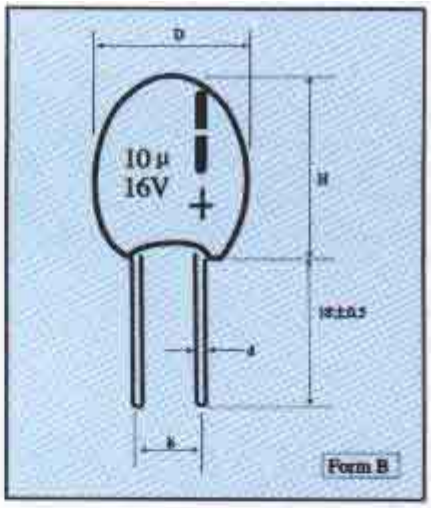
B：Bulk pack

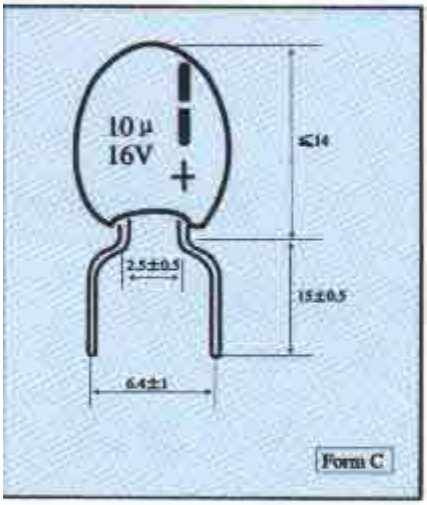


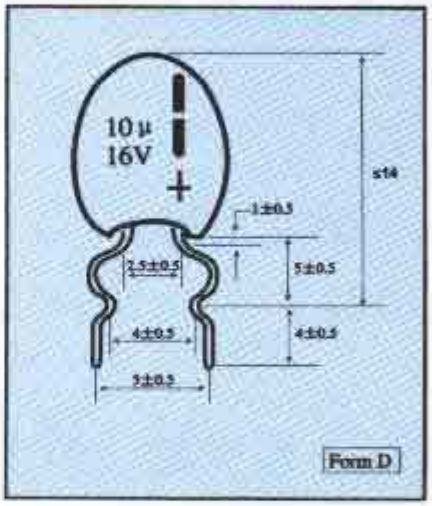
Designation	Symbol	Dimensions(mm)	
Pitch of component	P	12.7±1.0	
Feed hole pitch	Po	12.7±0.3	
Tape Width	W	+1 18 -0.5	
Hold down tape width	Wo	12±0.5	
Hole position	H3	+0.75 9 -0.5	
Hold down tape position	W2	1.0max	
Overall component height	H1	32.5max	
Component alignment	△P	±1.3max	
Feed hole diameter	D	4.0±0.3	
Tape thickness	T	0.5±0.2	
Component alignment	△h	2.0max	
Length of snipped leads	L	11max	
Lead clinch height	H	16±0.5	
Lead wire spacing	S	2.5±0.5	5±0.7
Feed hole center to wire center	P1	5.10±0.5	3.85±0.7
Hole center to component center	P2	6.35±0.4	
Component height	H2	+2 18 -0	
Lead diameter	D	0.5±0.05	

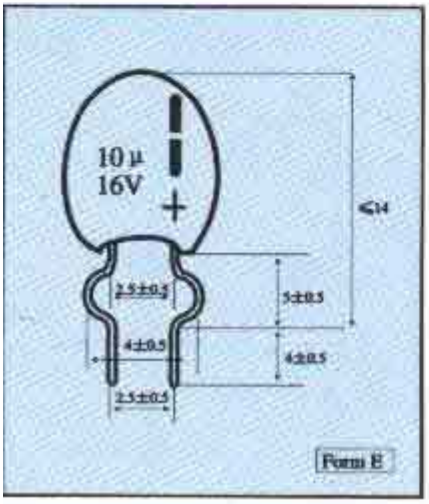
■ Lead Styles (Other lead styles are available)

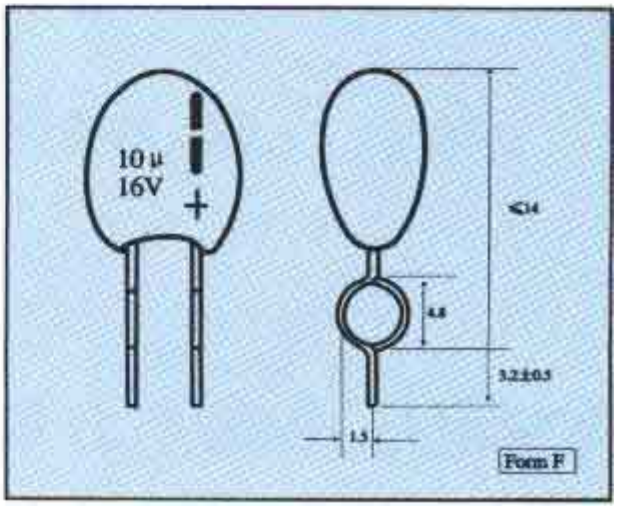












Typical Characteristic Curve