

## Solid Electrolyte Tantalum Capacitor

### AN018D—CA series—Axial type



#### Brief Introduction:

- I metal-cased, with polar axial leads, in small size, wide operating temperature range, stable performances, high reliability and long life,
- I meets the requirements of Chinese National Standard GB9583-88, widely used in instruments, meters and other electronic equipment for military and civil applications.

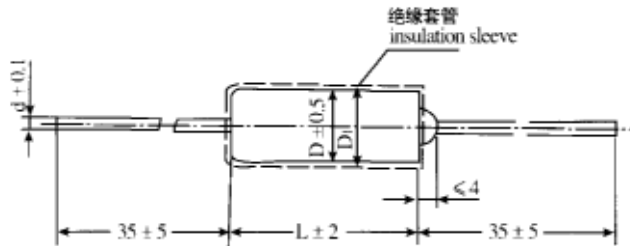


Figure 1

#### Features:

- Temperature Range:  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$  ( $>85^{\circ}\text{C}$  with rated voltage derating).
- Capacitance Tolerance:  $\pm 20\%$ ,  $\pm 10\%$
- DC Leakage at  $20^{\circ}\text{C}$ : Please see Table 1.
- Temperature Characteristics: See Table 1
- Nominal Capacitance, Rated Voltage, Voltage Derating, Dimensions and Max. Weight: Shown in Table 2. Figure 1

#### TEMPERATURE CHARACTERISTICS

table 1

Capacitance CR( $\mu\text{F}$ )	Cap. Change			DF(%) Max				DCL Max.		
	$-55^{\circ}\text{C}$	$+85^{\circ}\text{C}$	$+125^{\circ}\text{C}$	$-55^{\circ}\text{C}$	$+20^{\circ}\text{C}$	$+85^{\circ}\text{C}$	$+125^{\circ}\text{C}$	$+20^{\circ}\text{C}$	$+85^{\circ}\text{C}$	$+125^{\circ}\text{C}$
$\leq 1.0$	$\pm 8$	$\pm 8$	$\pm 12$	6	4	6	6	$I_o \leq 0.02$	$10I_o$	$12.5I_o$
1.5~68				8	6	8	8	$C_R U_R$ Or $1\mu\text{F}$		(1)
100~330				12	10	12	12			
470				15	12	15	15			

Note: (1) Measured at a voltage derating.

## Dimensions, Rated Voltage, Voltage Derating and Nominal Canacitance

table2

Rated Voltage(V)				6.3	10	16	25	32	40	63	75	100
Voltage Derating(V)				4	6.3	10	16	20	25	40	50	63
Case Size	DxL Max	D(mm)	Max. Weight (g)	Nominal Capacitance(uF)								
1	3 *2. 8	0. 4	0 7	1.0	0.68	0.33	0.33	0.22	0.22	0.22	0.22	0.047
				1.5	1.0	047	0.47	0.33	033	0.33	033	068
				2.2	1.5	0.68	0.68	0.47				
				3.3	22	1.0	1.0	060	0 47	0.47		01
				4.7	3.3	1.5	1.5	10	068			015
				68	47	2.2	2.2	1.5				022
				10	6.8	3.3					10	
2	5*12	0.6	2.5			4.7						
				15	10	68	33	22	15	0.68	0.47	033
				22	15	10	47	33	2.2	10	0.68	047
				33	22	15	68	4.7	3.3	15	10	068
				47	33	22	10	6.8	4.7	2.2	15	1.0
				68	47	33	15	10	68	33	22	15
3	6*14	0.6	3.5	100	68	47	22	15	10	47	33	22
				100	68	33			15		47	33
4	8*14	0.8	6	150	150	100	47	22	22	68		
				220			68	33	33	10		
5	8*22	0.8	10	330	220	150	100	47	47	15		
				470	330	220		68		22		

Note:When encapsulated with plastic insulation sleeve, dimension D increase0.3mm.