CA70 Series Bipolar solid Electrolytic Tantalum Capacitor

Executive Standard: Q/MM28-98

Characteristics and Application

●Metal case encapsulation, Hermitically-sealed, Cylindrical, Axial-leaded,With Insulation Sleeve,Bipolar capacitor;
●Excellent in electrical performances,High stabilization, Low DF&DCL;
●Applicable to DC&Pulse current of communications-equipments and instruments which have polarity change.

Main Features

●Operating Temperature Range:-55°C~+125°C（＞85°C with rated voltage derating）
●Rated Voltage, Derating Voltage, Nominal Capacitance: See table 1
●Capacitance tolerance:K：±10%; M：±20%
●DC leakage At+25°C: $I_0 \leq 0.02 C_R U_R$ (μA) or 1μA（which is greater）
●Dissipation Factors (tgδ) at 25°C: Not exceed the parameter in table 2
●Temperature Characteristics: Not exceed the parameter in table 2
●Dimensions and Max Weight: See figure 1 and table 1

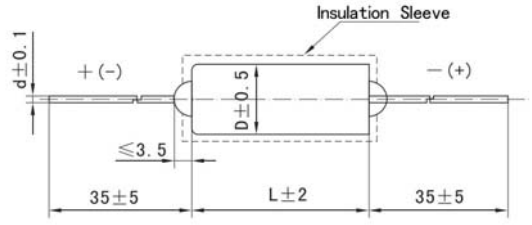

Table1 Rated Voltage, Derating Voltage, Nominal Capacitance, Dimensions and Max Weight

Rated Voltage U_R(V)				6.3	10	16	25	32	40	63
Derating Voltage U_C(V)				4	6.3	10	16	20	25	40
Dimensions (mm)			Max Weight (g)	Nominal Capacitance C_R (μF)						
D	L	d								
3.2	13	0.4	1.5	0.47 0.68 1.0 1.5 2.2 3.3 4.7	0.33 0.47 0.68 1.0 1.5 2.2 3.3	0.15 0.22 0.33 0.47 0.68 1.0 1.5	0.15 0.22 0.33 0.47 0.68 1.0	0.10 0.15 0.22 0.33 0.47 0.68	0.10 0.15 0.22 0.33 0.47	0.10 0.15 0.22
4.5	22	0.6	4.5	6.8 10 15 22 33	4.7 6.8 10 15 22	2.2 3.3 4.7 6.8 10 15	1.5 2.2 3.3 4.7 6.8	1.0 1.5 2.2 3.3 4.7	0.68 1.0 1.5 2.2 3.3	0.33 0.47 0.68 1.0 1.5
6	28	0.6	6	47	33 47	22 33	10 15	6.8	4.7 6.8	2.2
8	28	0.8	8	68 100	68	47	22 33	10 15	10 15	3.3 4.7
8	44	0.8	15	150 220	100 150	68 100	47	22 33	22	6.8 10
10	44	0.8	32	330 470	220 330	150 220	68 100	47 68	33 47	15 22

P.S. With insulation sleeve, D could be 0.3mm more at most,and L could be 1mm more at most.

Table 2 Temperature Characteristics

Nominal Capacitance C_R（μF)	Range of Capacitance (%)			Max					
				tgδ(%)				DCL (μA)	
	-55℃	85℃	125℃	-55℃	25℃	85℃	125℃	85℃	125℃
≤0.47	±8	±8	±10	3	3			8Ⅰ。	10Ⅰ。
0.68~33				5	5				
47~150				6	6				
220~470				8	8				