CAK Series with GJB,Solid Electrolytic Tantalum Capacitor

Executive Standard: GJB63B-2001 and GJB63A/1A-91

Characteristics and Application

●Metal case encapsulation, Hermitically-sealed, Cylindrical, Axial-leaded,With Insulation Sleeve, Heteropolarity;

●Excellent and stable in electrical characteristics,High reliability, Long life-span,Stable in storability, Low DF&DCL,Be equal to CSR13 Series in MIL-PRF-39003/1G;

●The failure rate was upgraded to 6 in 2008;

●Applicable to Astronavigation, Aerospace, Aviation, Weapons, Electronics,Vessels, Telecommunications,such Electrical equipments with DC&Impulse Circuit for Military use.

●Ordering information:CAK-686K016; 500pcs

Main Features

●Operating Temperature Range:-55ºC~+125ºC（＞85ºC with rated voltage derating）

●Rated Voltage, Derating Voltage, Nominal Capacitance: See table 1

●Capacitance tolerance:J: ±5%;K：±10%; M：±20%

●DC leakage At+25ºC: $I_0 \leq 0.01 C_R U_R$ (μA) or 0.5μA（which is greater）

●Dissipation Factors (tgδ) at 25ºC: 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

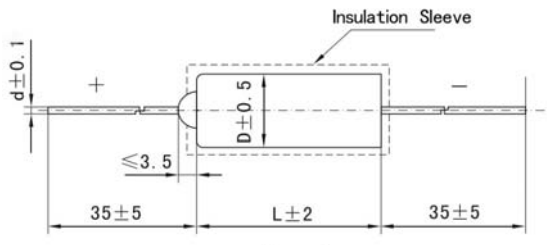

Figure 1

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)						
Case Code	D	L	d								
1	3.2	8	0.5	0.7	1.0 1.5 2.2 3.3 4.7 6.8 10	0.68 1.0 1.5 2.2 3.3 4.7 6.8	0.33 0.47 0.68 1.0 1.5 2.2 3.3	0.33 0.47 0.68 1.0 1.5 2.2	0.22 0.33 0.47 0.68 1.0 1.5	0.22 0.33 0.47 0.68 1.0	0.1 0.15 0.22 0.33 0.47
2	5	12	0.6	2.3	15 22 33 47 68	10 15 22 33 47	4.7 6.8 10 15 22 33	3.3 4.7 6.8 10 15	2.2 3.3 4.7 6.8 10	1.5 2.2 3.3 4.7 6.8	0.68 1.0 1.5 2.2 3.3
3	6	14	0.6	3.0	100	68 100	47 68	22 33	15	10 15	4.7
4	8	14	0.8	6.0	150 220	150	100	47 68	22 33	22 33	6.8 10
5	8	22	0.8	8.0	330 470	220 330	150 220	100	47 68	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℃
≤1	±8	±8	±10	2		3		8Ⅰ。	10Ⅰ。
1.5~4.7				3		3			
6.8~68				5		5			
100~330				6		6			
470				8		8			

P.S. : 1) Capacitance and DF measured at :100Hz,$U_{\_\_}$=2.2°$_{-1.0}$V，U~=1.0°$_{-0.5}$V.

2) When testing the DCL of Capacitors at 125℃,only derating voltage applied.

3) The controlled values of range of Capacitance,DF and DCL above are stricter than GBJ63A/1A-91.