GCA411C Series Solid Electrolytic Tantalum Capacitor

Executive Standard: QZJ840628 and Q/MM53-93

Characteristics and Application

- ●Metal case encapsulation, Hermitically-sealed, Cylindrical,Radial-leaded,With Insulation Sleeve, Heteropolarity;
- ●Excellent and stable in electrical characteristics,High reliability,Low DF&DCL,Small in size,Requirements of routine tests are higher than the technical stipulations of seven-special parts QZJ840628;
- ●Applicable to Weapons, Electronics, Telecommunications,such Electrical Equipments with DC&Impulse Circuit for Military and Civil use.
- ●Ordering information:GCA411C-226K063; 300pcs

Main Features

- ●Operating Temperature Range:-55ºC~+125ºC（＞85ºC with rated voltage derating）
- ●Rated Voltage, Derating Voltage, Nominal Capacitance: See table 1
- ●Capacitance tolerance: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

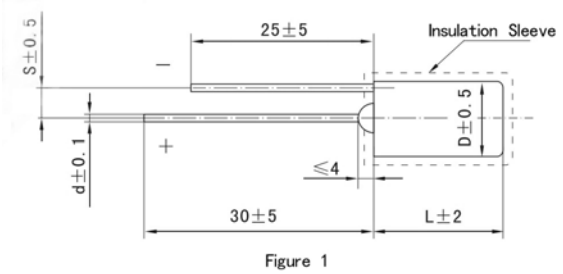

Figure 1

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	S								
1	3.2	8	0.4	0.9	0.7	6.8 10	3.3 4.7 6.8	2.2 3.3	1.5 2.2	1.0 1.5	0.68 1.0	0.22 0.33 0.47
2	5	12	0.6	1.8	2.5	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	2.3	3.5	100	68 100	47 68	22 33	15	10 15	4.7
4	8	14	0.8	3.3	6.0	150 220	150	100	47 68	22 33	22 33	6.8 10
5	8	22	0.8	3.3	10.0	330 470	220 330	150	100	47 68	47	15 22
6	10	22	0.8	4.3	16	680 1000	470 680	220 330	150 220	100 150	68 100	33 47

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	3				8Ⅰ。	10Ⅰ。
1.5~68				5					
100~330				6					
470~1000				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.