CA301型非固体电解质钽电容器



CA301 Series Non-Solid Electrolyte Tantalum Capacitor

产品简介

本型号产品系轴向引出、圆柱形、银外壳封装、外套绝缘套管、有极性的非固体电解质钽电容器。电性能优良稳定、可靠性高、长寿命、储存稳定性优良。适用于航空、航天、导弹、通讯等有可靠性要求的军用电子设备的直流或脉动电路。

产品执行标准: GJB1312A - 2001 Q/XRD20007 - 2006

主要技术性能

使用温度范围: -55℃~+125℃(>+85℃时施加类别电压使用)。

额定电压、类别电压、标称电容量: 见表2;

电容量允许偏差: ±5%; ±10%; ±20%;

室温漏电流: I≤0.001C₈U₈(μA)或1μA(取大者);

高温漏电流(+85℃、+125℃): I₀≤0.008C₀U₀(μA)或8.0μA(取大者);

损耗角正切($tg\delta$): 不超过表2规定;

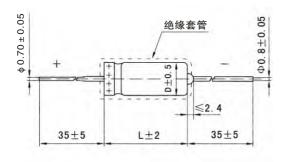
负温(-55℃)阻抗:不超过表2规定;

高低温特性:不超过表2规定;

外形尺寸和最大重量:见图1和表1;

图1 外形尺寸 Picture 1: size

单位(mm)



Brief Introduction:

CA301 Series Non-Solid Electrolyte Tantalum Capacitor with axial leads, Cylindrical, Silver case, gas seal, polar.

Good electric performance, High reliability, long life.

Be suitable on equipment of aviation, guided missile, and communications.

Electronic Industry Standard GJB1312A-2001 Q/XRD20007-2006.

Features:

Operation temperature: -55 \sim +155 . see table 2. Capacitance Tolerance: \pm 5% ; \pm 10% ; \pm 20%.

Leakage Current:

25 Ι 0.001CRUR (μ A) or 1 μ A (whichever is greater)

85 125 I 0.008 CRUR (μ A) or 8.0 μ A (whichever is greater)

Dissipation Factor: see table 2 Size: see table 1 and picture 1

表1 外形尺寸和最大重量

Table 1 Size & Weight

| 外壳代号 | 最大重量(g) | 外形尺寸 (mm)size | | | |
|------|-----------|---------------|----|--|--|
| code | weight(g) | D | L | | |
| 0 | 3 | 5 | 10 | | |
| 1 | 4 | 5 | 14 | | |
| 2 | 5 | 6 | 16 | | |
| 3 | 7 | 8 | 16 | | |
| 4 | 10 | 8 | 22 | | |
| 5 | 14 | 10 | 22 | | |
| 6 | 17 | 10 | 25 | | |
| 7 | 25 | 10 | 30 | | |
| 8 | 35 | 10 | 33 | | |
| 9 | 50 | 12 | 36 | | |

注:外套绝缘套管后直径D最大值增加0.3mm,长度L最大增加1.6mm

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表2 电容器的额定电压、类别电压、标称电容量、外壳代号和主要电性能

Table 2 Rated Voltage\Derating Voltage\Capacitance\code\character

| 额定 电压 U _R (V) | 类别 电压 U _c (V) | 标称 电容量 C _R (µF) | 外売 代号 | 损耗角 正切 (%) | 阻抗 -55℃ (Ω) | 额定 电压 U _R (V) | 类别 电压 U _c (V) | 标称 电容量 C _R (µF) | 外売 代号 | 损耗角 正切 (%) | 阻抗 -55℃ (Ω) |
|--------------------------------|--------------------------------|----------------------------------|----------|------------------|-------------------|--------------------------------|--------------------------------|----------------------------------|----------|------------------|-------------------|
| | | 1.0 | 0 | 6 | 1800 | | | 2.2 | 0 | 6 | 1100 |
| | | 1.5 | 0 | 6 | 1400 | 1 | | 3.3 | 0 | 6 | 700 |
| | | 2.2 | 0 | 6 | 1100 | 1 | | 4.7 | 0 | 6 | 500 |
| | | 3.3 | 0 | 6 | 700 | | | 6.8 | 0 | 8 | 350 |
| | | 4.7 | 0 | 6 | 500 | | | 10 | 0 | 8 | 260 |
| | | 6.8 | 0 | 8 | 350 | | | 15 | 0 | 10 | 180 |
| | | 10 | 0 | 8 | 260 | | | 22 | 0 | 10 | 150 |
| | | 15 | 0 | 10 | 200 | | | 33 | 0 | 12 | 110 |
| | | 22 | 0 | 10 | 180 | | | 47 | 1 | 12 | 90 |
| | | 33 | 0 | 12 | 125 | 16 | 10 | 68 | 1 | 18 | 80 |
| 6.3 | 4 | 47 | 0 | 15 | 125 | 10 | | 100 | 2 | 20 | 70 |
| | | 68 | 0 | 18 | 125 | | | 150 | 2 | 30 | 60 |
| | | 100 | 1 | 20 | 100 | | | 220 | 3 | 40 | 55 |
| | | 150 | 1 | 30 | 80 | | | 330 | 4 | 40 | 45 |
| | | 220 | 2 | 40 | 70 | | | 470 | 5 | 40 | 40 |
| | | 330 | 2 | 40 | 60 | | | 680 | 6 | 45 | 35 |
| | | 470 | 3 | 50 | 50 | | | 1000 | 7 | 50 | 30 |
| | | 680 | 4 | 50 | 35 | _ | | 1200 | 7 | 50 | 25 |
| | | 1000 | 5 | 60 | 25 | | | 1500 | 7 | 60 | 20 |
| | | 1200 | 5 | 60 | 25 | | | 2200 | 8 | 60 | 20 |
| | | 1500 | 6 | 60 | 20 | 25 | | 1.0 | 0 | 6 | 1800 |
| | | 2200 | 6 | 70 | 20 | | | 1.5 | 0 | 6 | 1400 |
| | | 1.0 | 0 | 6 | 1800 | | | 2.2 | 0 | 6 | 1100 |
| | 6.3 | 1.5 | 0 | 6 | 1400 | | 16 | 3.3 | 0 | 6 | 700 |
| | | 2.2 | 0 | 6 | 1100 | | | 4.7 | 0 | 6 | 500 |
| | | 3.3 | 0 | 6 | 700 | | | 6.8 | 0 | 8 | 300 |
| | | 4.7 | 0 | 6 | 500 | | | 10 | 0 | 8 | 260 |
| | | 6.8 | 0 | 8 | 350 | | | 15 | 0 | 10 | 175 |
| | | 10 | 0 | 8 | 250 | | | 22 | 0 | 10 | 150 |
| | | 15 | 0 | 10 | 200 | | | 33 | 1 | 12 | 110 |
| | | 22 | 0 | 10 | 175 | | | 47 | 1 | 12 | 80 |
| | | 33 47 | 0 | 12 | 125 | | | 68 | 2 | 20 | 75 |
| | | | 1 | 15 | 100 | | | 100 | 3 | 20 | 70 |
| 10 | | 68 100 | | 18 20 | 80 60 | | | 150 220 | 4 | 25 | 60 |
| | | 150 | 2 | 30 | 55 | | | 330 | 5 | 30 | 55 45 |
| | | 220 | 2 | 40 | 45 | | | 470 | 6 | 40 | 40 |
| | | 330 | 3 | 45 | 40 | | | 680 | 7 | 35 | 35 |
| | | 470 | 4 | 50 | 35 | | | 1000 | 7 | 40 | 30 |
| | | 680 | 5 | 50 | 30 | | | 1200 | 7 | 50 | 25 |
| | | 1000 | 6 | 50 | 25 | 40 | | 1.0 | 0 | 6 | 1800 |
| | | 1200 | 6 | 60 | 25 | | 25 | 1.5 | 0 | 6 | 1400 |
| | | 1500 | 6 | 60 | 20 | | | 2.2 | 0 | 6 | 1100 |
| | | 2200 | 6 | 70 | 20 | | | 3.3 | 0 | 6 | 700 |
| | 10 | 1.0 | 0 | 6 | 1800 | 1 | | 4.7 | 0 | 6 | 450 |
| 16 | | 1.5 | 0 | 6 | 1400 | | | 6.8 | 0 | 8 | 350 |

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表2 电容器的额定电压、类别电压、标称电容量、外壳代号和主要电性能

| 额定 电压 U _R (V) | 类别 电压 U _c (V) | 标称 电容量 C _R (µF) | 外売 代号 | 损耗角 正切 (%) | 阻抗 -55℃ (Ω) | 额定 电压 U _R (V) | 类别 电压 U _c (V) | 标称 电容量 C _R (µF) | 外売 代号 | 损耗角 正切 (%) | 阻抗 -55℃ (Ω) |
|--------------------------------|--------------------------------|----------------------------------|----------|------------------|-------------------|--------------------------------|--------------------------------|----------------------------------|----------|------------------|-------------------|
| | | 10 | 0 | 8 | 260 | | | 1.0 | 0 | 6 | 1800 |
| | | 15 | 0 | 10 | 175 | | | 1.5 | 0 | 6 | 1400 |
| | | 22 | 1 | 12 | 140 | | | 2.2 | 0 | 6 | 1100 |
| | | 33 | 1 | 12 | 110 | | | 3.3 | 0 | 6 | 700 |
| | | 47 | 2 | 15 | 80 | | | 4.7 | 0 | 6 | 500 |
| | | 68 | 2 | 15 | 75 | | | 6.8 | 1 | 8 | 350 |
| 40 | 25 | 100 | 3 | 20 | 65 | 7. | F0 | 10 | 1 | 8 | 260 |
| | | 150 | 4 | 20 | 50 | 75 | 50 | 15 | 2 | 10 | 175 |
| | | 220 | 5 | 25 | 45 | | | 22 | 2 | 12 | 140 |
| | | 330 | 6 | 25 | 35 | | | 33 | 3 | 12 | 100 |
| | | 470 | 6 | 30 | 35 | | | 47 | 3 | 15 | 80 |
| | | 680 | 7 | 40 | 35 | | | 68 | 4 | 15 | 65 |
| | | 1000 | 7 | 45 | 30 | | | 100 | 5 | 20 | 60 |
| | | 1500 | 9 | 45 | 30 | | | 150 | 6 | 20 | 50 |
| | | 1.0 | 0 | 6 | 1800 | | | 220 | 7 | 25 | 45 |
| | | 1.5 | 0 | 6 | 1400 | | | 330 | 7 | 25 | 35 |
| | | 2.2 | 0 | 6 | 1100 | | | 1.0 | 0 | 6 | 1800 |
| | | 3.3 | 0 | 6 | 700 | | | 1.5 | 0 | 6 | 1400 |
| | | 4.7 | 0 | 6 | 500 | | | 2.2 | 0 | 6 | 1100 |
| | | 6.8 | 0 | 8 | 350 | | | 3.3 | 0 | 6 | 700 |
| | | 10 | 1 | 8 | 260 | | | 4.7 | 0 | 6 | 500 |
| | | 15 | 1 | 10 | 175 | | | 6.8 | 1 | 8 | 350 |
| | | 22 | 2 | 12 | 150 | 100 | | 10 | 1 | 8 | 260 |
| 50 | 30 | 33 | 2 | 12 | 110 | | | 15 | 2 | 10 | 175 |
| | | 47 | 3 | 15 | 80 | | | 22 | 2 | 10 | 150 |
| | | 68 | 4 | 15 | 75 | | 63 | 33 | 3 | 15 | 100 |
| | | 100 | 5 | 20 | 65 | | | 47 | 4 | 15 | 70 |
| | | 150 | 6 | 20 | 50 | | | 68 | 5 | 15 | 65 |
| | | 220 | 6 | 25 | 45 | | | 100 | 6 | 20 | 60 |
| | | 330 | 7 | 25 | 45 | | | 150 | 6 | 20 | 50 |
| | | 470 | 7 | 35 | 35 | | | 220 | 7 | 20 | 40 |
| | | 680 | 7 | 40 | 30 | | | 330 | 8 | 20 | 40 |
| | | 1.0 | 0 | 6 | 1800 | | | 470 | 9 | 20 | 40 |
| | 40 | 1.5 | 0 | 6 | 1400 | 125 | 75 | 1.0 | 0 | 6 | 1800 |
| | | 2.2 | 0 | 6 | 1100 | | | 1.5 | 0 | 6 | 1400 |
| | | 3.3 | 0 | 6 | 700 | | | 2.2 | 0 | 6 | 1100 |
| | | 4.7 | 0 | 6 | 500 | | | 3.3 | 0 | 6 | 700 |
| | | 6.8 | 0 | 8 | 350 | | | 4.7 | 1 | 6 | 500 |
| | | 10 | 1 | 8 | 260 | | | 6.8 | 1 | 8 | 350 |
| | | 15 | 1 | 10 | 175 | | | 10 | 2 | 10 | 260 |
| 63 | | 22 | 2 | 12 | 140 | | | 15 | 2 | 10 | 175 |
| | | 33 | 2 | 12 | 100 | | | 22 | 3 | 15 | 150 |
| | | 47 | 3 | 15 | 80 | | | 33 | 4 | 15 | 120 |
| | | 68 | 4 | 15 | 65 | | | 47 | 5 | 15 | 90 |
| | | 100 | 5 | 20 | 60 | | | 68 | 6 | 15 | 70 |
| | | 150 | 6 | 20 | 50 | | | 100 | 6 | 15 | 50 |
| | | 220 | 7 | 25 | 45 | | | 150 | 7 | 15 | 50 |
| | | 330 | 7 | 25 | 35 | | | 220 | 8 | 15 | 50 |
| | | 470 | 7 | 40 | 30 | | | 330 | 9 | 15 | 50 |
| | | 680 | 8 | 40 | 30 | | | 470 | 9 | 15 | 50 |
| | | 1000 | 9 | 40 | 30 | | | | | | |

注: 1. 电容量、损耗角正切测试条件: U_=2.2 $^{\circ}_{-1.0}$ V, U_=1.0 $^{\circ}_{-0.5}$ V(有效值); 测量频率: 100Hz。 2. +125℃测量漏电流时应施加类别电压。

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