

# **CA30 Non-Solid Electrolyte Tantalum Capacitor**

**CA30 型非固体电解质固定钽电容器**

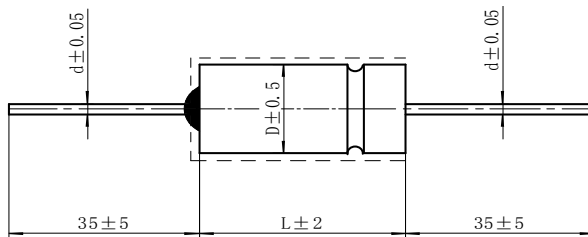
# Specification For Approval

## CA30 型非固体电解质固定钽电容器

### CA30 Type Non-Solid Electrolyte Fixed Tantalum Capacitor

CA30 型非固体电解质固定钽电容器,采用钽粉压制的钽块为正极,银外壳为负极,轴向引出结构具有优异的电性能和性价比。The CA30 type non-solid electrolyte fixed tantalum capacitor adopts tantalum powder as the positive electrode and the silver outer shell as the negative electrode. The axial lead-out structure has excellent electrical properties and cost performance.

#### 1. 外观尺寸 Outer dimension



#### 2. 产品特点 Features

- 银外壳封装,半密封、圆柱形、轴向引出。Silver case package, semi-sealed, cylindrical, axially led out.
- 有极性,电性能稳定可靠,比体积容量大,工作电压高,漏电流极小。Polarity, stable and reliable electrical performance, large volume capacity, high working voltage and minimal leakage current.

#### 3. 应用范围 Application scope

- 适用于兵器、通讯、海缆等军用及民用电子设备的直流或脉动电路中,起到隔直通交和储能的作用。Suitable for DC or pulsating circuits of military and civil electronic equipment such as weapons, communications, and submarine cables. It functions as a direct communication and energy storage.

#### 4. 技术要求 Technical requirements

引用标准 Standard	● SJ/T10030-91
工作温度范围 Operating temp range	● $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
额定电压 Rated voltage	● 50V
降额电压 Derating voltage	● 30 V
电容量等级/偏差 Capacitance tolerance	● K级 - $\pm 10\%$

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## 5. Model & Spec& Dimension & Performances

Model	Spec V- $\mu$ F	Standard	Dimension mm	d mm	+20°C Loss %	+20°C Leakage current $\mu$ A
CA30	50-120- $\pm$ 10%	SJ10030-91	$\Phi$ 8*22	0.8	30	6

## 6. 注意事项 Precautions

- 禁止使用万用表测量钽电容器（极易造成不可逆损伤而导致产品报废）。It is forbidden to use a multimeter to measure tantalum capacitors (it is easy to cause irreversible damage and lead to product scrapping).
- 电容量、损耗角正切的测量频率为 100Hz，直流偏置电压  $U=2.2_{-1.0}^0V$ 、交流偏置  $U=1.0_{-0.5}^0V$ （有效值）；测量方式为串联等效电路。The measurement frequency of capacitance and loss tangent is 100Hz, DC bias voltage  $U=2.20 -1.0V$ , AC bias  $U\sim 1.00 -0.5V$  (effective value); the measurement method is series equivalent circuit.
- 超过 85°C 测试漏电流，需施加降额电压。Test leakage current above 85 °C, and apply derating voltage.