

What is a tantalum capacitor?

Tantalum capacitors use tantalum metal and solid manganese dioxide electrolyte, providing high capacitance in a compact size. Normal electrolytic capacitors, often aluminum-based with liquid electrolyte, offer a wider range of capacitance. Tantalum capacitors are polarized, unlike some electrolytic capacitors.

Where can I buy a tantalum refractory capacitor?

Admat, Inc., located in Norristown, PA, distributes tantalum hybrid capacitors as well as capacitor lead sealing. It also offers other refractory metal products and parts.

What is tantalum wire used for?

Tantalum wire is widely used in electronic industry. It is mainly used as anodic lead wire of tantalum electrolytic capacitor. Tantalum wire was the first material used for filaments in light bulbs. Tantalum wire is also used in the electronics industry in the manufacture of rectifiers and capacitors.

Are tantalum capacitors susceptible to DC bias?

Tantalum capacitors are not susceptible to DC bias. Finally, as mentioned above, all of the tantalum capacitors' parameters are very stable over a wide range of temperatures, from -55 to 125°C, and even up to 175°C. MLCC devices have many different grades for different temperature groupings, such as X5R, X7R, and NP0.

How can TNTI supply tantalum wire?

TNTI can supply tantalum wire with a premium surface finish; it has superior performance in such applications. Tantalum exhibits high reactivity towards interstitial elements like Hydrogen, Nitrogen and Oxygen. Also it may react with Hydrocarbons. Its recrystallization temperature varies between 900 °C and 1450 °C.

Are tantalum capacitors polarized or bipolar?

(At 10kHz its capacity drops by less than 20%) Note: Normally it is a polarized capacitor. To make it non-polarized or bipolar, two tantalum capacitors are connected in series and their anodes are oriented in the opposite direction. Why do tantalum capacitors fail? The unfavorable failure mode is one of their major drawbacks.

Remark: Special requirements of tantalum wire will have to be agreed on by the supplier and buyer of negotiations. Applications: Tantalum wire is widely used in electronic industry. It is mainly used as anodic lead wire of tantalum electrolytic ...

Types of Tantalum capacitors. Wet tantalum capacitors: These can work at high voltages, from 100V to 630 V, with low ESR and lowest leakage current among electrolytic capacitors. They have self-healing properties,

allowing thinner dielectric oxide layer, and high capacitance per unit volume.

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We're one of the most professional manufacturers and suppliers of pure tantalum wire in China. You can source high quality pure tantalum wire with reasonable price from our factory. Tel: +8618091719909. E-mail ... Anode lead of electrolytic tantalum capacitor, 2. medical needle, Used to compensate for muscle tissue and can be used to suture ...

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The manufacturers of the tantalum capacitors have responded to this application need through con-1998 PCIM Conference - JAPAN ©1998 PCIM and Intertec International, Inc. ... particles and the tantalum wire protruding out of the pellet. All the tantalum particles are now in very good electrical contact to one another, but the voids, ...

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Tantalum capacitors are ideal for applications demanding reliable, compact solutions, with low Equivalent Series Resistance (ESR) and dependable performance across varied environments. Designed with tantalum metal as the anode, these capacitors excel in power management, signal processing, and decoupling functions.

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We purchase and recycle Tantalum scrap metal (Ta) from heat-exchanger tubes, crucibles, sputtering targets, chamber spray, Tantalum wires, capacitors, powder, and residue.

For these reasons legislation has made the free trade of Tantalum complicated, however our policy may be seen in the Compliance section of our website. We can accept offers of ...

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