

Where can I buy a Tantalum capacitor?

... Tantalum Capacitors are available at LCSC Electronics. LCSC offers inventory, prices, datasheets for Tantalum Capacitors.

What is a tantalum capacitor?

The tantalum capacitor, because of its very thin and relatively high permittivity dielectric layer, distinguishes itself from other conventional and electrolytic capacitors in having high capacitance per volume (high volumetric efficiency) and lower weight. Tantalum is a conflict resource.

Are aluminum and tantalum electrolytic capacitors standardized?

The tests and requirements to be met by aluminum and tantalum electrolytic capacitors for use in electronic equipment for approval as standardized types are set out in the following sectional specifications: Tantalum capacitors are the main use of the element tantalum. Tantalum ore is one of the conflict minerals.

Why do tantalum electrolytic capacitors fail?

In solid tantalum electrolytic capacitors the heat generated by the ripple current influences the reliability of the capacitors. Exceeding the limit tends to result in catastrophic failures with shorts and burning components.

What is a molded chip tantalum capacitor?

Molded Chip tantalum capacitor encases the element in plastic resins, such as epoxy materials. The molding compound has been selected to meet the requirements of UL 94 V-0 and outgassing requirements. After assembly, the capacitors assure long life and reliability.

Are tantalum electrolytic capacitors SMD?

More than 90% of all tantalum electrolytic capacitors are manufactured in SMD style as tantalum chip capacitors. It has contact surfaces on the end faces of the case and is manufactured in different sizes, typically following the EIA -535-BAAC standard. The different sizes can also be identified by case code letters.

Tantalum capacitors are a type of electrolytic capacitor that uses tantalum metal as the anode. These capacitors are known for their high capacitance values in a small form ...

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Solid Tantalum Surface Mount Chip Capacitors TANTAMOUNT(TM) Molded Case, Military MIL-PRF-55365/8 Qualified

Wet Tantalum Capacitors are available at Mouser Electronics from industry leading manufacturers. Mouser is an authorized distributor for wet tantalum capacitor manufacturers ...

OverviewBasic informationMaterials, production and stylesHistoryElectrical characteristicsReliability and life timeAdditional informationSee alsoElectrolytic capacitors use a chemical feature of some special metals, historically called valve metals, which can form an insulating oxide layer. Applying a positive voltage to the tantalum anode material in an electrolytic bath forms an oxide barrier layer with a thickness proportional to the applied voltage. This oxide layer serves as the dielectric in an electrolytic capacitor. The properties of this oxide layer are compared with those of a niobium electrolytic capacitor oxide la...

Leaded tantalum capacitors are mostly used for military, medical and space applications that require high reliability and performance. KYOCERA AVX resin coated, encapsulated Tantalum ...

Tantalum capacitors are made with capacitance values ranging from 1nF all the way to 72mF and they are much smaller in size than aluminum electrolytic capacitors of the same capacitance. ...

Electrolytic capacitors and tantalum capacitors are both types of capacitors commonly used in electronic circuits. However, they differ in terms of construction, performance, and applications. ...

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Tantalum capacitors in different styles: axial, radial and SMD-chip versions (size comparison with a match) 10 uF 30 VDC-rated tantalum capacitors, solid electrolyte epoxy-dipped style. A tantalum electrolytic capacitor is an ...

Tantalum capacitors are the preferred choice in applications where volumetric efficiency, stable electrical parameters, high reliability and long service life are primary considerations. The ...

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