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# Super Tantalum Capacitor

What is a supertan &#174; wet tantalum capacitor?

By providing military H-level performance in a SuperTan series, the STH series offers a lower-cost alternative to hi-rel wet tantalum capacitors while ensuring the high reliability required by more aggressive mission profiles. Vishay's SuperTan&#174; wet tantalum capacitors feature improved military H-level shock and vibration capabilities.

What is a wet tantalum capacitor?

breakthrough in wet tantalum capacitor technology. Its unique cathode system provides the highest capacitance per unit volume. The design facilitates a doubling of capacitance, lower ESR and higher ripple current rating compared with conventional wet tantalum products. Moreover, the ST has the capacitance stability of a solid tantalum capacitor.

Why are tantalum capacitors important?

First, tantalum capacitors can achieve even higher CV due to its porous structure. Second, tantalum capacitors can achieve even lower ESR because of their internal structure with parallel layers and multiple anodes. Finally, tantalum capacitors are more resistant to vibration, which is especially important for automotive applications.

What is a good replacement for a tantalum capacitor?

Aluminum electrolytic or polymer capacitors are common replacements for tantalum capacitors. Ceramic capacitors may be suitable for high-frequency applications. Consider size, performance, and cost when choosing a replacement. I have a keen passion for learning and understanding various concepts of electronics.

The capacitors feature standard tin / lead (Pb) terminations, with RoHS-compliant 100 % tin terminations available. Samples and production quantities of the new STH wet ...

Tantalum Capacitors KYOCERA AVX is the number one tantalum capacitor supplier with four manufacturing plants worldwide, ...

Tantalum Capacitors KYOCERA AVX is the number one tantalum capacitor supplier with four manufacturing plants worldwide, which provides flexibility and capacity for the ...

Tantalum, MLCC, and super capacitor technologies are ideal for many energy storage applications because of their high capacitance capability. These capacitors have ...

1. Introduction Tantalum capacitors or tantalum electrolytic capacitors are a very specialized capacitor using metallic tantalum as the ...

Design of maintenance-free battery-less microcontrollers enabled by tantalum capacitors and supercapacitors are discussed in a ...

We manufacture and sell silver mica capacitors, tantalum capacitors, film capacitors, super

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capacitors and high reliability solutions for telecom, medical, new energy, rail, aviation, ...

Hermetically sealed MnO<sub>2</sub> tantalum capacitors have demonstrated their ability to offer unique long life stability at 230°C combined with solid, stable and robust design. [1]. The ...

SuperTan Wet Tantalum Capacitors With Hermetic Seal, Extended Range SuperTan®  
Wet Tantalum Capacitors With Hermetic Seal, Extended Range

Capacitors Types of capacitors manufactured by Vishay include tantalum (both solid and wet), ceramic (both multilayer chip and disk), film, power, heavy-current, and aluminum. ...

The Super Tantalum Capacitor is an essential part of our Capacitor offerings. To ensure capacitor quality from a China supplier, conduct factory audits, request product certifications, and ...

A Leading HQ MLCC Manufacturer from China Since 2003 Since its establishment in 2003, CT Capacitors (Chuang Tian) has emerged as a leading manufacturer of High-Quality Multilayer ...

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