



Double tuning capacitor

Another common capacitor type is the film capacitor, which features very low parasitic losses (ESR), making them great for dealing with very high currents. There's plenty of other less common capacitors. Variable capacitors can produce a range of capacitances, which makes them a good alternative to variable resistors in tuning circuits. Twisted ...

Abstract: In order to allow a wireless power transfer system to operate in a large-scale space where coupling coefficient has a significant variation due to different air gaps and displacements, a double-side self-tuning LCC /S system using a variable switched capacitor based on parameter recognition is proposed in this article. The main ...

A variable capacitor used for tuning radios is shown in Figure 8.2.5 . One set of plates is fixed to the frame while an intersecting set of plates is affixed to a shaft. Rotating the shaft changes the amount of plate area that ...

A resonating circuit formed by a capacitor and an inductor in parallel, is called a parallel tuned circuit. This circuit does not contain any resistance. Resistor means power loss ...

This paper presents the design and testing of a MEMS Varactor for microwave applications. The tunable capacitor consists of a movable bridge shunt-connected to a 50Ω coplanar line on HR-silicon substrate. The design is based on double actuation mechanism with a mechanical central bond that inhibits the pull-in and allows for theoretically infinite tuning ...

To improve the efficiency of wireless EV charging across broad output voltages and wide-range load variations, this article introduces a reconfigurable WPT ...

A variable capacitor, sometimes referred to as a tuning capacitor, is a kind of capacitor in which the capacitance can be mechanically or electrically altered on a regular basis. ...

Recently, a double-tuned coil for hybrid MR-PET imaging was introduced by Oehmigen et al. In this design, an existing commercial double-tuned birdcage design ...

The capacitors are tricky for tuning and require high voltage types so as not to arc. They have been used for years on ships for both their size and narrowness of frequency. The narrowness of ...

Trimmer and variable capacitors are generally used for tuning & matching applications in RF circuits. Radio receivers that indicate the selected tuning frequency by sweeping a mechanical indicator past a scale (or vice-versa) typically have a mechanical linkage between the indicator and the variable capacitor(s) used in the tuning circuit.



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PE64906 is a DuNE(TM) technology-enhanced digitally tunable capacitor (DTC) based on pSemi's UltraCMOS technology. This highly versatile product supports a wide variety of tuning circuit topologies with emphasis on impedance ...

Double-layer capacitors were named for the physical phenomenon of the Helmholtz double-layer; ... Tuning capacitor - variable capacitor for intentionally and repeatedly tuning an oscillator circuit in a radio or another tuned circuit; Trimmer capacitor - small variable capacitor usually for one-time oscillator circuit internal adjustment ...

Dynaco FM-3 rebuild - "A Double Dose of Fine Tuning!" 0 Members and 1 Guest are viewing this topic. Read 57817 times. Bill Thomas. Full Member; Posts: 424 ... Does the tuning capacitor operate smoothly with no "play" in the tuning knob? Do the plates of the tuning capacitor mesh without touching? Does it have all of its original tubes?

The higher in frequency you go the less turns you need on the ferrite. To cover a wide range you would wind the ferrite to resonate at the higher frequencies with minimal capacitance then use a variable 0-365-pf capacitor for tuning then switch in fixed capacitors to lower the tuning range of the ferrite.

This paper presents a new zero voltage switching (ZVS) tuning method for the double-sided inductor/capacitor/capacitor (LCC) compensated wireless power transfer (WPT) system. An additional capacitor is added in the secondary side of the double-sided LCC compensation network in order to tune the network to realize ZVS operation for the ...

Electrochemical double-layer capacitors (EDLCs) possess extremely high-power density and a long cycle lifespan, but they have been long constrained by a low energy density. Since the electrochemical stability of electrolytes is essential to the operating voltage of EDLCs, and thus to their energy density, the tuning of electrolyte components ...

I'm afraid that our second tuner in the "Double Dose of Fine Tuning" will have to wait for awhile. I had to use my last NEW can capacitor to repair his tuner, and it is unclear whether any others will be ...

The separator thickness in relation to the electrode thickness can significantly influence the energy storage capacity and pressure variation in electrical ...

Tuning capacitors are adjustable electronic components crucial for fine-tuning resonant circuits to specific frequencies. They consist of two conductive plates separated by a dielectric, allowing for capacitance adjustment. Commonly used in radio frequency circuits, they enable efficient signal reception or transmission by aligning circuit ...

Indeed, as a cost of diminishing nonidealities, both two-way comparing strategy and capacitor bank redundancy will double the tuning time. However, $4n$ cycles is still less than 2^{n-1} in applications where the



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control word is wider than five bits, which is usual when high tuning accuracy or a wide tuning range is demanded.

group of sensing/feedback/tuning capacitors. When external acceleration is applied, a set of capacitive electrodes attached to the proof mass displaces against to the opposite set of fixed capacitive electrodes, resulting in variable overlapping sizes for sensing and feedback capacitors and gap change for tuning capacitors of DSPP.

The double-sided inductor capacitor capacitor topology has been proposed in some national standards for wireless charging systems. ... at the output, and a tuning capacitor to dynamically tune the ...

This article presents a dual-side capacitor tuning and cooperative control strategy for wireless electric vehicle (EV) charging. To improve the efficiency of wireless EV charging across broad output voltages and wide-range load variations, this article introduces a reconfigurable WPT system by incorporating two switch-controlled-capacitors (SCCs) ...

By using the electrostatic softening effect of the double-sided comb-finger capacitors and the triangular capacitors, the effective stiffness of the accelerometer can be adjusted to quasi-zero.

The capacitance of a variable capacitor changes as the relative effective area or distance between the plates is altered. This component is commonly used as a tuning capacitor in radio receiving ...

CBM-223P Variable Tuning Capacitor o CBM-223P Variable Tuning Capacitoro Radio Tuning Capacitoro Manufacturer Part No: CBM-223Po Capacitance : 59.2pf / 141.6 pf o insulation resistance : 500MO Ω ;o Contacts resistance: 20mOo Order # CBM-223Po Condition : NEWo Price is Per One Tuning Capacitor. Variable Tuning Capacitor

Semantic Scholar extracted view of "High voltage electrochemical double layer capacitor containing mixtures of ionic liquids and organic carbonate as electrolytes" by A. Krause et al. ... Tuning of Ionic Liquid-Solvent Electrolytes for High-Voltage Electrochemical Double Layer Capacitors: A Review. Yan Wang Kaiyuan Xue +6 ...

A double-tuned transformer from a radio receiver intermediate-frequency amplifier with its screening can be removed. A double-tuned amplifier is a tuned amplifier with transformer coupling between the amplifier stages in which the inductances of both the primary and secondary windings are tuned separately with a capacitor across each. The scheme ...

DOI: 10.1109/TIE.2020.2978726 Corpus ID: 216477946; A Double-Side Self-Tuning LCC/S System Using a Variable Switched Capacitor Based on Parameter Recognition @article{Li2021ADS, title={A Double-Side Self-Tuning LCC/S System Using a Variable Switched Capacitor Based on Parameter Recognition}, author={Weihan Li and ...



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OverviewMechanically controlled capacitanceSpecial forms of mechanically variable capacitorsHistoryElectronically controlled capacitanceTransducersNotesExternal linksA variable capacitor is a capacitor whose capacitance may be intentionally and repeatedly changed mechanically or electronically. Variable capacitors are often used in L/C circuits to set the resonance frequency, e.g. to tune a radio (therefore it is sometimes called a tuning capacitor or tuning condenser), or as a variable reactance, e.g. for impedance matching in antenna tuners.

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