



Low voltage capacitor resistor patent

The change in the voltage across the terminals of switched capacitor 414 determines the amount of charge transferred from switched capacitor 414. In addition, amplifier circuit 442 preferably matches the switched-capacitor voltage to the resistor voltage.

An active low-pass filter whose cutoff frequency is a function of the input voltage to the filter comprising a series connection from the input to the filter to ground which consists of: (1) an input resistor r , (2) a capacitor C , and (3) a grounded resistor R . A series connection across the capacitor C comprises: (a) a feedback amplifier having two input leads, one of which is ...

Low-voltage capacitors and filters. Chat with Live Agent. Improving the performance, quality and efficiency of electrical systems With energy transition, good power quality is becoming more and more essential for utility, industrial and commercial networks. Growing renewables and dominance of electronics in industrial and consumer segments ...

For discharging capacitors 41 and 43 during a shutdown, active discharge circuits are provided which include a discharge resistor 50 and discharge switch 51 connected in series across capacitor 43 and a discharge resistor 52 and a discharge switch 53 connected in series across input capacitor 41.

@article{osti_869497, title = {Low noise charge sensitive preamplifier DC stabilized without a physical resistor}, author = {Bertuccio, Giuseppe and Rehak, Pavel and Xi, Deming}, abstractNote = {The invention is a novel charge sensitive preamplifier (CSP) which has no resistor in parallel with the feedback capacitor. No resetting circuit is required to discharge ...

@article{osti_7149026, title = {Low noise charge sensitive preamplifier DC stabilized without a physical resistor}, author = {Bertuccio, G and Rehak, P and Xi, D}, abstractNote = {The invention is a novel charge sensitive preamplifier (CSP) which has no resistor in parallel with the feedback capacitor. No resetting circuit is required to discharge the ...

This invention relates to an aluminum electrolytic capacitor suitable for low-voltage use that contains ammonium difluoroacetate dissolved in either ethylene glycol or an ethylene...

5. The interface circuit of claim 4, comprising: a capacitor discharging circuit including a low-voltage transistor, the capacitor discharging circuit coupled with the input of the controller of the power converter circuit, wherein an output of the second shunt regulator circuit is coupled with a control node of the low-voltage transistor, the capacitor discharging circuit to ...

The gate voltage applied to each transistor is able to "float" together with the source voltage in order to keep the gate-source voltage constant, and the resistance structure exhibits...



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A cathode or output node of the output diode 128 is electrically connected to the output voltage node 137, a high voltage node of the output capacitor 129, and a first node of the output resistor 130. Additionally, a low voltage node of the output capacitor 129 and a second node of the output resistor 130 are electrically connected to the ...

A current-controlled FET resistor and a low supply, current-controlled FET Pi attenuator network are provided. The current-controlled FET resistor includes an FET having drain, source, and gate terminals, and a connection between the gate terminal and the drain terminal, wherein a resistance characteristic of the FET is proportional to an input current ...

Justia Patents Linearly Acting US Patent for Voltage regulator having overshoot suppression Patent (Patent # 9,671,802) ... and overshoot suppression means 400 including a resistor 411, a capacitor 412, ... When VERR is low, an ON-resistance of the output transistor 404 is low and VOUT is high.

2005-02-24 Publication of US20050041437A1 publication Critical patent ... or any other suitable low voltage potential DC source. In this context, low voltage means that the DC source produces a voltage potential that is in the range of hundreds of millivolts. ... The RC circuit 130 comprises a resistor 132 and a capacitor 134. The resistor 132 ...

A low voltage, high capacitance electrolytic capacitor having likecarbon electrodes and which thus can be left on short circuit for an indefinite period of time without significant damage or...

11. The switch mode power supply of claim 10, wherein the first resistor and the second resistor are configured to define a low voltage threshold, the isolation circuit is configured to deactivate when a voltage of the starting capacitor is below the low voltage threshold, and the low voltage threshold is below the voltage of the starting capacitor at the end of the startup ...

2000-03-22 Priority to US09/532,693 priority Critical patent/US6356034B1/en ... Thus they have a somewhat unique power supply requirement of high frequency yet low voltage with the resulting benefit of low power requirement. ... and an inductor L1 connected to the node of the resistor R1 and capacitor C1. The terminals are adapted to be ...

A low voltage circuit is used to control a high voltage transistor which operates a high voltage motor. ... 1990-11-06 Priority to US07/609,540 priority Critical patent/US5103148A/en 1990-11-06 Assigned to MOTOROLA, INC. reassignment ... a resistor 21, a capacitor 22, a turn-off and protection circuit 19, a supply voltage terminal 40, a supply ...

Low-dropout voltage regulators have been used for battery applications, e.g., in cellular phones, etc. FIG. 1 shows a conventional low-dropout regulator (LDO) 10 that is connected to a load...

: 1. An electrolytic capacitor comprising a container made of insulating material, at least two porous carbon



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electrodes supported in spaced relation within the container, each of said electrodes having a porosity at least as great as fired tar lampblack and an electrolyte in contact with at least part of each of said electrodes, said capacitor when used in circuit applications of ...

The first resistor and the second resistor may be configured to define a low voltage threshold, and the isolation circuit may be configured to deactivate when the starting ...

Each sub-stage of an amplifier stage includes a resistor coupled to another resistor in an adjacent sub-stage or to a high DC voltage, the resistor and the other resistor forming part of a string of equal valued resistors; an FET having a source coupled to a cathode of a Zener diode coupled in parallel with a capacitor, a drain coupled to another sub-stage in the ...

the second resistor feedback network is configured to provide a comparator feedback output as an input to the overshoot protection circuit. ... On-chip low voltage capacitor-less low dropout regulator with Q-control
DK2614333T3 (da) * 2010-09-10: 2021-11-01 ... 2015-11-02 WO PCT/US2015/058583
patent/WO2016073340A1/en active Application Filing;

The impedance networks also provide coupling paths from the outputs of the driver and main output stages to the load. The impedance networks can all be formed of ...

Low-dropout voltage regulators have been used for battery applications, e.g., in cellular phones, etc. FIG. 1 shows a conventional low-dropout regulator (LDO) 10 that is connected to a load 20. LDO 10 includes an op-amp 12, a PMOS transistor M1, resistors R1 and R2, and a reference voltage supply Vref. Load 20 includes a resistive load RL and a capacitive load CL.

A low voltage, high capacitance electrolytic capacitor enabling substantial savings in size, weight and cost; having: the ability to adjust itself internally to either

A method of manufacturing a semiconductor integrated circuit device having low depletion ratio capacitor comprising: forming hemispherical grains (HSG) on a poly-silicon; doping the hemispherical grained polysilicon in a phosphine gas; and rapid thermal oxidizing the doped hemispherical grained polysilicon at 850°C. for 10 seconds. The method further comprises ...

2020-05-14 Publication of US20200153334A1 publication Critical patent/US20200153334A1/en ... the converter 1 comprises an inductor L X for connection to the power source 2 providing through an input resistor Rin, an input voltage Vin to be converted, ... Low-voltage start up circuit and method for DC-DC boost converter US20110279105A1 (en)

Interfacial polarization losses are common in low-frequency high voltage capacitors. Partial discharge losses. ... more than 60 technical papers and 1 US/international patent ... Stackpole adds 3.5-W current-sense chip resistor Next Post



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Power good low output voltage (9) V OL ISINK = 0.5 mA 0.5 V EN high input voltage 1. 2 V EN low input voltage 0.4 V EN input bias current V EN = 1.5V, 5V 0.01 1 \$ Thermal protection 155 °C Current limit 550 730 mA Notes: 5) Parameter is guaranteed by design .

2002-01-24 Priority to US10/057,707 priority Critical patent ... and isolation resistor R 1 530 . Capacitors C 1 510 and C 2 520 form a series of capacitors, with R 1 530 connected to the common point. ... or other layer as insulating material. In a specific embodiment, these capacitors are designed to have a low voltage coefficient, that is ...

Justia Patents US Patent Application for LOW DROP-OUT VOLTAGE REGULATOR AND AN ADAPTIVE FREQUENCY COMPENSATION METHOD FOR THE ... it is possible to improve the transient response of the LDO voltage regulator by using a capacitor with a very low ESR for the output ... The resistor 44 shown in FIG. 2 is required to have a large ...

The invention relates to a DC-DC converter (1) for a power source (2) generating extremely low voltage, the converter (1) operating in discontinuous mode, wherein the converter (1) comprises a self-oscillating charge pump (3a) having an array of interconnected ring oscillators (RO1 - RON) for successively stepping up an input voltage (V_{in}) so as to result in the accumulated voltage ...

We present in this paper an overview of circuit techniques dedicated to design reliable low-voltage (1-V and below) analog functions in deep submicron standard CMOS processes. The challenges of designing such low-voltage and reliable analog building blocks are addressed both at circuit and physical layout levels. State-of-the-art circuit topologies and techniques (input level ...

An integrated circuit including a low drop out (LDO) regulator configured to implement transient response and loop stability in a capacitor-less configuration, including an ...

Justia Patents US Patent for Low voltage power on reset circuit Patent (Patent # 11,418,187) Low voltage power on reset circuit . Sep 27, 2021 - ... Filter circuit includes a resistor 225 and a capacitor 227. Resistor 225 is connected between the drain of PMOS transistor 226 at node Switch_in and the negative supply terminal VSS.

Even low-voltage capacitors can deliver a jolt if not discharged properly. Component Damage: If you're working on a circuit and inadvertently touch an uncharged capacitor, ... Using a discharge tool with a resistor can control the discharge rate. Initial Voltage: The higher the initial voltage across the capacitor, the longer it will take to ...

The feedback network includes a capacitor and a variable resistor each coupled between the output and the first input of the transimpedance amplifier. The readout circuit is coupled to the feedback network and has an output for providing a readout signal. ... and opened in response the BYPASS signal being inactive at a logic



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low voltage ...

The low voltage portion of the ballast includes a control circuit and fault detectors for shutting off the boost circuit and the inverter circuit. ... 1995-04-13 Priority to PCT/US1995/004642 priority patent/WO1995028819A1 ... thereby causing transistors Q 5 and Q 6 to switch alternately at a frequency determined by resistor 173, capacitor 174 ...

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