

Can a 60v inverter be used with a 60v capacitor





Overview

How many Ma can a switched capacitor inverter run?

Typical IC switched capacitor inverters have maximum output currents of about 150mA maximum. Switched capacitor voltage converters do not maintain high efficiency for a wide range of ratios of input to output voltages, unlike their switching regulator counterparts.

What is a switched capacitor voltage converter?

The two most common switched capacitor voltage converters are the voltage inverter and the voltage doubler circuit shown in Figure 4.1. In the voltage inverter, the charge pump capacitor, C1, is charged to the input voltage during the first half of the switching cycle.

Why is a capacitor inverter a good choice?

Because there is no need for an inductor, the final PCB component height can generally be made smaller than a comparable switching regulator. This is important in many applications such as display panels. Switched capacitor inverters are low cost and compact and are capable of achieving efficiencies greater than 90%.

Which capacitor is used in IC switched capacitor voltage converter?

The pump capacitor, C1, and the load capacitor, C2, are external. Not shown in the diagram is a capacitor on the input which is generally required to ensure low source impedance at the frequencies contained in the switching transients. The switches used in IC switched capacitor voltage converters may be CMOS or bipolar as shown in Figure 4.9.



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