

TI494 high frequency inverter price





Overview

How does a tl494 inverter work?

The inverter works based on the switching IC of TL494. The IC generates high-frequency pulses (about 30khz). The pulses are amplified by the MOSFET of IRF3205 and pass through the transformer. The Fast diodes are rectified and give the power output.

How does tl494 work?

In a solid state Tesla coil, the TL494 functions by boosting the current of its two outputs using push-pull stages. These outputs are then used to drive the primary of a small ferrite transformer. This transformer isolates the sensitive low voltage control circuitry from the high power MOSFET side while coupling the drive signals to the gates of the two MOSFETs.

What is a TL494 circuit?

The circuit you have shown is a typical TL494 circuit. It uses two self oscillator transistors to start the 5V standby supply, and then the TL494 takes over and synchronization takes place.

How is tl494 frequency modulated?

The carrier signal generated by the TL494 is frequency modulated by the HV supply voltage. The frequency is swept down by a few percent as the voltage increases in an attempt to track the resonator frequency as the sparks grow.



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