Mini-Transformer  Step-Up Application Notes

Step-Up

PRI.  SEC.
1  3
2  4

Notice that the primary winding pins 1 & 2 are at the corners.

NOTE: \( V_{cc} = +5 \text{ VDC} \)

This small transformer is capable of outputting 600 volts or more with the simple circuit shown above. The circuit uses a 4049 hex inverter buffer IC to generate a square wave. The 4.7K potentiometer adjusts the width of the pulse. The IRF830 Power Mosfet controls the current to the primary windings of the mini step-up transformer.

An audio signal feed to the primary will step up the voltage enough to power a piezo-film speaker.

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Important: Inverter transformers are not wired the same as regular transformers. Notice that the primary pins 1 and 2 are at the corners.