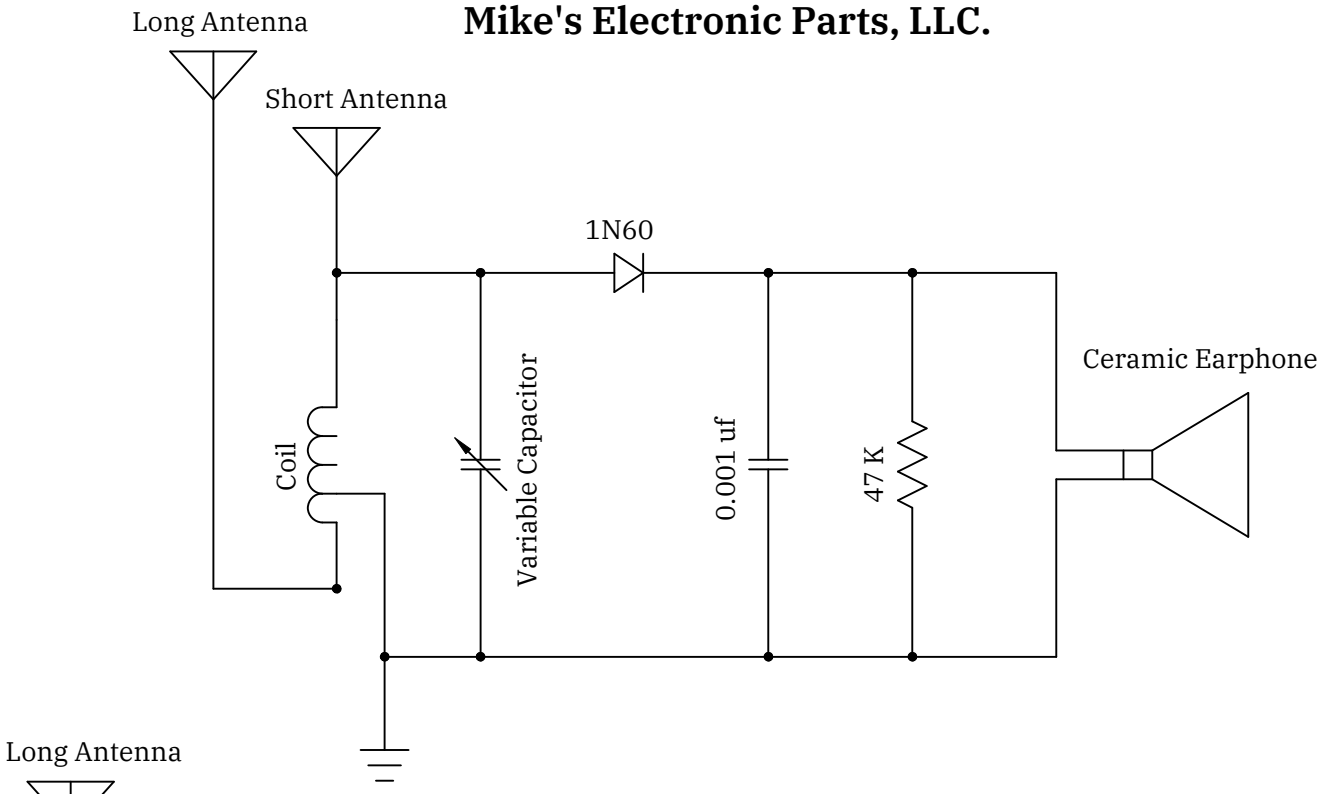
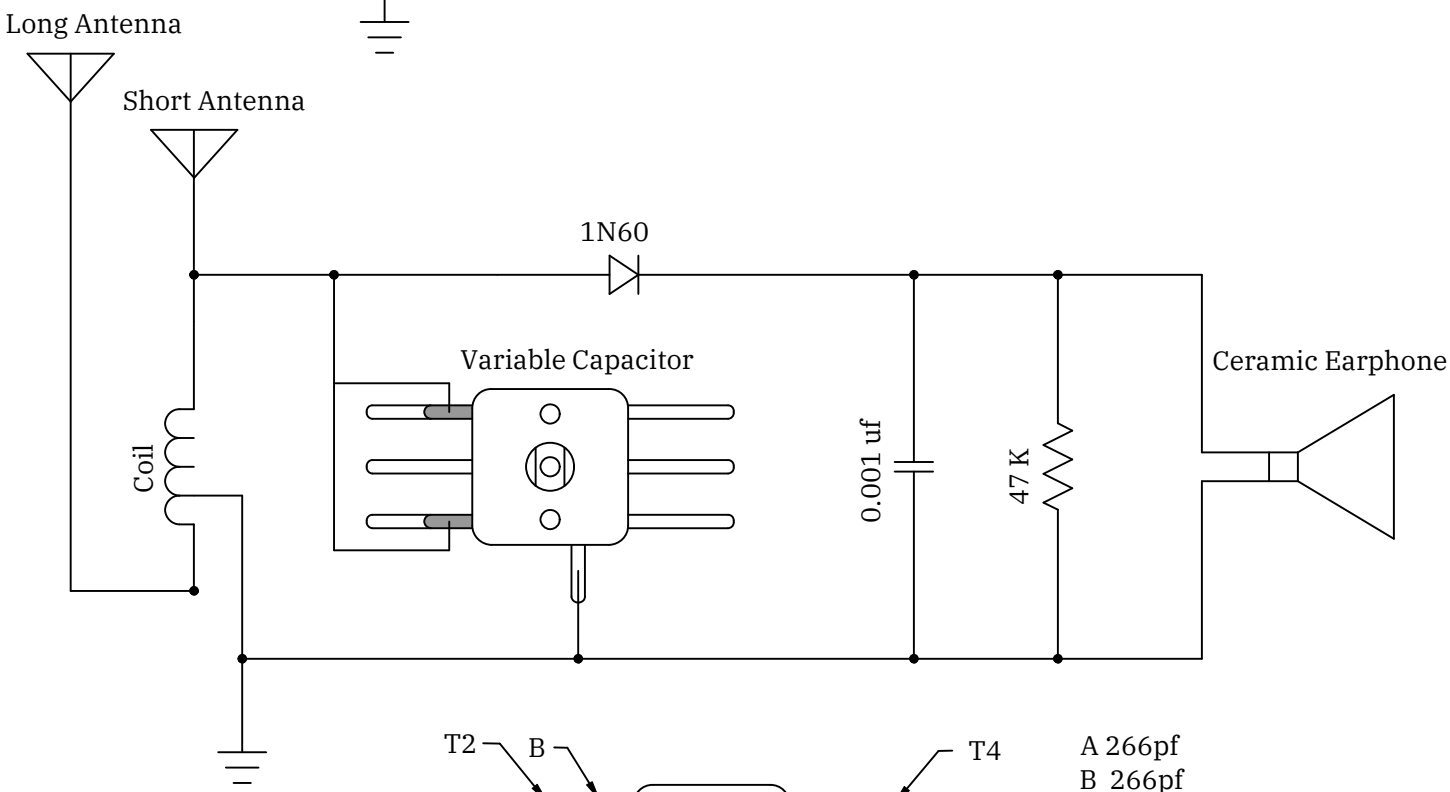
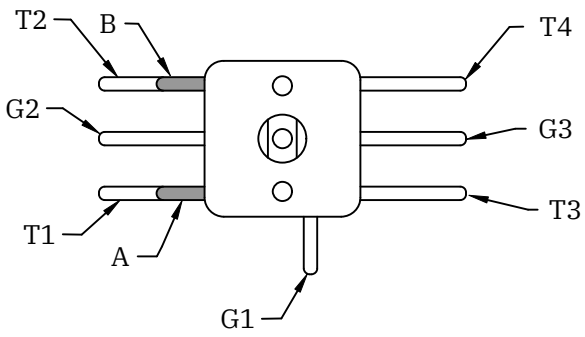
Crystal Radio Kit 6

Mike's Electronic Parts, LLC.







A 266pf
B 266pf
T1 T2 T3 T3 ~10pf Trimmers
G1 G2 G3 Ground

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Crystal Radio Kit 6 can be built in a variety of ways. You can solder the components together, use a breadboard, wood and screws, etc... There are some example photographs of using a piece of wood and screws on the web site. One photograph shows building the kit with no soldering using alligator clips and another photograph shows a build with minimal soldering.

Use both sections of the 266pf variable capacitor for a total of 532pf. You can optionally include one or more of the trimmers to lower the frequency range slightly if needed.

The schematic shows two antennas, short and long. Use only one of these at a time. The antenna should be at least 30 feet long but longer is typically better. An antenna between 30 and 60 feet, try the short antenna and then the long antenna option to see which gives you best performance. Longer than 60 feet will likely require the long antenna connection, but feel free to try both.

Regardless of which antenna option you use, the antenna should be run parallel to the ground and as high as is practical. Try running the antenna in different directions as the antenna is somewhat directional. Metal buildings, metal roofs, trees, etc... can restrict the antennas ability to pick up stations well. Typically, outdoor antennas perform better than indoor.

A good ground helps performance. For the long antenna connection, a good ground is required. A minimal ground can be obtained by just about any metal object, like a metal desk. A good ground can be obtained by an actual earth ground or an exposed copper plumbing pipe.

Reception is typically significantly better after dark.