Summary

The theme of the degree project is devoted to the topic - the design of the device for ultrasonic inspection for defects soldering. In the thesis project was designed, functional circuit, consisting of piezoelectric transducer probe pulse generator, circuit protection, power memory microcontroller and digital display. Was the calculation of electronic components and calculation errors. Was developed electrical circuit schematic that consists of elements such as resistors, capacitors, a field-effect transistor, the primary converter and a microcontroller and LCD display. A device based on ultrasonic method allows to control the solder joints copper plumbing pipes of large diameter. The downside is that the use of copper pipes in plumbing purposes are not very popular.