

Annotation

In this master's thesis the stages of development of a power supply for a low-power motor based on a quasi-resonant pulsed converter will be considered. During the work, various sources of information, in particular, educational material for past courses, were used to get a closer look at the topic.

As a result of the work, the functional and principle diagrams of the device were developed and described. This allowed to calculate the elements of the future scheme, compiled a list of elements and developed a printed circuit board using the package "Altium Designer". A program part was synthesized in which the process of microcontroller control and display of output data was implemented.

In addition, we analyzed the production factors that negatively affect human health and work. The basic requirements of safety engineering are developed.