

CALCULATION OF RELIABILITY ELECTRONICS

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The work is dedicated to simplify reliability calculations of developed electronics. Actuality of this topic is simplification and minimization of reliability electronic equipment, which is described and implemented in the program. The benefits of this program is a simple user interface, the ability to easily expand the database failure rate elektroradioelementiv etc.

Lack of uniform methods of primary analysis equipment reliability during operation leads to serious difficulties in the calculation of the required data to ensure reliability during development. This is related to the complexity and failure analysis of linguistic situations or mechanical impact on equipment or climatic factors.

To ensure the reliability necessary to take into account relationship with numerous organizational and technical measures, and sometimes fundamental researches. Evaluation often complicated by the fact that a large number of potential sources of failures and varied in all stages of creation and application systems and in addition have different nature and different statistical value.

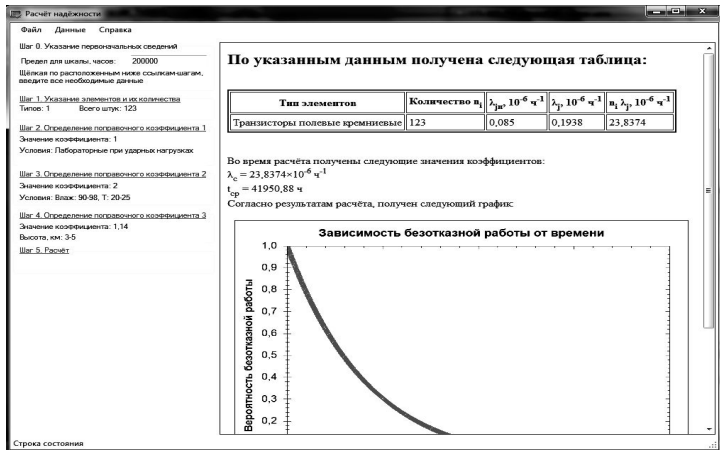


Fig. 1. Main menu

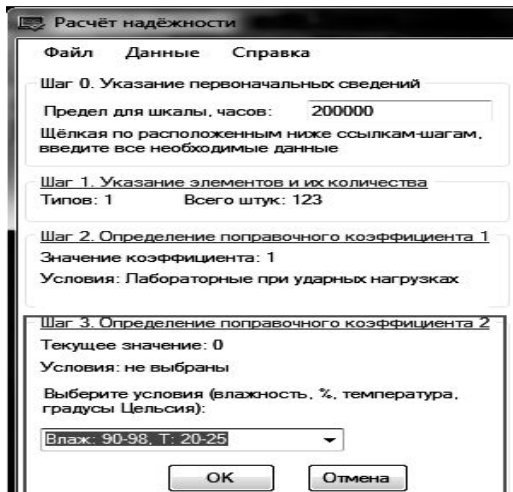


Fig. 2. Correction factors

One of the main features is an ability to create and edit components and selection of species and types.

The program provides an opportunity to calculate the reliability of electronic equipment, taking into account the elements, time and operating conditions, as well as humidity and ambient temperature. The interface made as easy as possible and simple for the user.

References:

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