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Safety Application Guide for potentiometers for use in electronic equipment

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Safety Application Guide for potentiometers for use in electronic equipment

Introduction

This guideline is prepared based on **EIAJ RCR-1001** (Safety Application Guide for Electronic parts), which is issued in order to attempt the improvement of safe use in the whole of manufacturers of component and electronic equipment, and developed by the Potentiometer Group on the Technical Standardization Committee on Passive Component of the Japan Electronics and Information Technology Industries Association (**JEITA**). This guideline is prepared as a revision of **EIAJ RCR-2191** (Safety Application Guide for potentiometers) issued in July of 1994.

This guideline is described on general matters (e.g. principle, feature, fundamental performance, assembly process, selection, failure mode, case of failure) instead of notabilia in first edition, in order to offer correct knowledge for potentiometers.

This guideline is made up based on the information offered by component and equipment manufacturers in editing. Accordingly, this guideline is useful to equipment design, assembly process in equipment manufactures and use of the equipment in the field. And this guideline may also be used as reference for component manufacturers in specifying safety requirements to be include in a specifications for customers. It is expected that the electric equipment manufacturer can secure the safety in the time of the equipment design, the mounting process, and use of the equipment or others. It is also expected that the component manufacturers can utilize in the case of creating the matter about the safety of specifications. This document was prepared based on the component manufacturers individual understandings, as well as cooperation from the electric equipment manufacturers.

It is recommended that this guideline should be used together with **EIAJ RCR-1001** describing the basic consideration on safe use electronic components.

1. Scope

This guideline is applied to all types of resistive potentiometer, including surface mount, through-hole mount, panel mount potentiometers, etc. to be used in electronic equipment.

This guideline only provides the information of approaches to the safety of electronic components, better ways and recommended points on the use of electronic components for the purpose of improving safety of the electronic equipment. This guideline, therefore, shall not assure the product safety of applied electronic components and electronic equipment even when applications comply fully with this guideline.