

RELIABILITY EVALUATION OF SAFETY-CRITICAL COMPONENT IN AUTOMOTIVE SYSTEM

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Abstract

This paper focuses on the field reliability estimation of safety-critical component based on warranty failures in automotive electronics product. The study also aims to compare the field reliability to the predicted reliability from standards and to provide confident inputs to Functional safety. The beginning of the component useful (normal) life is evaluated on the purpose of Predicted reliability. Therefore, the ratio “predicted/field” reliability can be used for setting more precise reliability predictions of the same products/components in future.

Key Words : *Automotive system, Reliability, Functional safety.*

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