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# NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# GB/T 12859.2-2012

Replacing GB/T 12860-1991; GB/T 12862-1991

## Piezoelectric ceramic resonators -- A specification in the IEC quality assessment System for electronic components (IECQ) -- Part 2: Sectional specification -- Qualification approval

电子元器件质量评定体系规范 压电陶瓷谐振器 第2部分：分规范-鉴定批准

**(English Translation)**

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Preview: page 1 of 4 shown, 16 in the full document. Complete English PDF, instant download:
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# Table of Contents

Introduction
1 General
1.1 Scope
1.2 Objective
1.3 Normative references
2 Priority ratings, features and details Specification Guide
The property values \u200b\u200bof 2.1 Priority
2.2 Priority Rating
Content 2.3 specification shall give details of
2.4 Terms
2.5 Flag
3 Quality assessment procedures
3.1 The initial stage of manufacture

## Foreword

GB/T 12859 "quality assessment system for electronic components of piezoelectric ceramic resonator" is divided into the following parts.

--- Part 1. Generic specification --- Qualification approval;

--- Part 2. Sectional specification --- Qualification approval;

--- Part 2-1. Blank detail specification --- Assessment level E.

This section GB/T 12859 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 12860-1991 "electronic equipment - Piezoelectric ceramic resonators for low frequency specification for piezoelectric ceramic resonators" and GB/T 12862-1991 "electronic equipment - Piezoelectric ceramic resonators for high frequency specification for piezoelectric ceramic resonators", and GB/T 12860-1991 and GB/T 12862-1991 compared to the main changes are as follows.

--- Low-frequency and high-frequency piezoelectric ceramic resonators piezoelectric ceramic resonator requires combined into a single specification;

--- Based on the total specification modify the citations.



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This section uses redrafted law revision using IEC 61253-2:1993 "IEC quality assessment system for electronic components of piezoelectric ceramic resonators Vibration - Part 2. Sectional specification --- Qualification approval. " this part of IEC 61253-2:1993 technical differences exist compared to the terms of these differences has been involved through its outer margin bits Opposing vertical single line (|) were marked. Appendix A gives a list of corresponding technical differences and their causes.

This section also made the following editorial changes.

IEC standard number --- uses the current directory number, the original number of 1253 according to IEC standard requirements preceded by "6";

--- With GB/T 2828.1-2003 instead of IEC 410. 1973 "counter check sampling plan and procedures", the former and the latter in use no technical difference;

--- Environmental testing with the national standard GB/T 2423 instead of the corresponding IEC 60068, they are no references in this technical part of the difference;

--- 4.2.5.1 Insulation resistance measurement; "1a and 1c" read "a and c".

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This part of the frequency control and selection by the National Focal piezoelectric Standardization Technical Committee (SAC/TC182) devices.

This section drafted by. China Electronic Components Industry Association Branch of the piezoelectric crystal, Zhejiang Jia Kang Electronics Co., Ltd.

## 1.1 Scope

This section GB/T 12859 specifies the priority ratings and characteristics from the total specification GB/T 12859.1-2012 selected, and suitable Quality assessment procedures used, and the test method is applicable measurement methods.

This section applies to GB/T 12859 piezoelectric ceramic resonators electronic equipment, but not for lead-free and multi-resonator oscillator resonator or resonator with other electronic components.

## 1.2 Purpose

This section gives an electronic device with a piezoelectric ceramic resonator general performance requirements. Test severity detail specification level and Requirements should be equal to or higher than this part of this section.



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### 1.3 Normative References

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 321-2005 priority number and priority number system (ISO 3. 1973, IDT) GB/T 2421.1-2008 Environmental testing for electric and electronic products and Overview Guide (idt IEC 60068-1. 1988) GB/T 2423 (all parts), Environmental testing for electric and electronic products - Part 2. Test Method 1) GB/T 2828.1-2003 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch test sample Programme (ISO 2859-1:1999, IDT) GB/T 12859.201-2012 quality assessment system for electronic components of piezoelectric ceramic resonators - Part 2-1. Blank detail Fine norm --- Assessment level E (IEC 1253-2-1:1993, IDT) IEC 60642. 1979 for frequency control and selection of the piezoelectric ceramic resonator and a resonator Chapter I. standard values \u200b\u200band test conditions first Chapter II. measuring and test conditions (Piezoelectricceramicresonatorsandresonatorunitsforfrequencycontroland selection-ChapterI. Standardvaluesandconditions-ChapterII. Measuringandtestconditions) IEC QC001002-2:1998 IEC Quality Assessment System for Electronic Components (IEC Q) Rules of Procedure Part 2. File (IEC Qualityassessmentsystemforelectroniccomponents (IEC Q) -Rulesofprocedure-Part 2. Documen-tation) Part 3 of the Rules of Procedure 1998IEC Quality Assessment System for Electronic Components (IEC Q).. IEC QC001002-3 approval procedure (IEC Qualityassessmentsystemforelectroniccomponents (IEC Q) -Rulesofprocedure-Part 3. Ap-provalprocedures)

1) the use of the above referenced files and their respective versions of the terms of the total test specification.



Preview: page 4 of 4 shown, 16 in the full document. Complete English PDF, instant download:
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