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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 12274.401-2023

**Quartz crystal controlled oscillators of assessed quality - Part
4-1: Blank detail specification - Capability approval**

有质量评定的石英晶体振荡器 第4-1部分：空白详细规范 能力批准

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is part 4-1 of GB/T 12274 "Quartz crystal oscillators with quality assessment". GB/T 12274 has been released with

Lower part.

---Part 1. General specifications;

---Part 4. Approval of sub-standard capabilities;

---Part 4-1. Blank detailed specification for capability approval.

This document is equivalent to IEC 60679-4-1.1998 "Quartz crystal oscillators with quality assessment Part 4-1. Blank detailed regulations

Specification capability approval.

This document adds two chapters. "Normative References" and "Terms and Definitions".

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

Introduction

GB/T 12274 "Quartz Crystal Oscillators with Quality Assessment" aims to provide general requirements and quality assessment for quartz crystal oscillators

The program is planned to consist of 7 parts.

---Part 1. General specifications. The purpose is to specify the terms and definitions of

quartz crystal oscillators, as well as the general quality assessment procedures.

Require.

---Part 2. User Guide. The purpose is to give the type, structure and general principles of quartz crystal oscillators, so as to provide users with

Provide guidance on rationally selecting oscillators and meeting usage requirements.

---Part 3. Standard shape and terminal connection. The purpose is to give the commonly used appearance diagrams and terminals of quartz crystal oscillators.

Functional definition.

---Part 4. Sub-standard capability approval. The purpose is to give priority values for quartz crystal oscillators based on capability approval

and applicable measurement methods, and give the general performance requirements adopted in the detailed specifications.

---Part 4-1. Blank detailed specification for capability approval. The aim is to give quartz crystal oscillators based on capability approval

Detailed specification of format and minimum content requirements.

---Part 5. Sub-standard appraisal and approval. The purpose is to give priority values for quartz crystal oscillators based on qualification approval

and applicable measurement methods, and give the general performance requirements adopted in the detailed specifications.

---Part 5-1. Blank detailed specification appraisal approval. The purpose is to give quartz crystal oscillators based on qualification approval

Detailed specification of format and minimum content requirements.

The blank detailed specification is a supplementary document to the sub-specification and contains the format and minimum content requirements of the detailed specification.

For customized quartz crystal oscillators, if there is no plan to publish detailed specifications, it is recommended to adopt the homepage format of Appendix A. This format is not

It cannot be modified, but is recommended to be followed whenever possible.

For the numbers in square brackets in the following table, it is recommended to fill in the following corresponding items in the corresponding positions.

[1] The name of the national standards authority that issues detailed specifications under its authority. Where applicable, obtain detailed specifications from the department.

[2] IEC Q number and detailed specification number assigned by IEC.

[3] General specification and related sub-standard numbers and their version numbers. If there are differences, relevant information about national standards can also be added.

[4] The country number, publication date of the detailed specification that is different from the IEC Q number, as well as other content required by the national standard and any Revision number.

[5] A brief description of the quartz crystal oscillator or the scope of the quartz crystal oscillator (such as ordinary crystal oscillator and output frequency).

[6] Typical structure (when applicable) (such as resistance welding, cold pressure welding).

For [5] and [6], the detailed specification should give the complete content required by IEC QC001005 and IEC QC001004.

[7] Outline drawings marked with main interchangeable dimensions, in accordance with the requirements of IEC 60679-3 and/or refer to the corresponding national or international standards

Appearance requirements in the document. In addition, the figure may also be given in the appendix of the detailed specification.

This document is used in conjunction with the following documents.

GB/T 12274.1-2012 Quartz crystal oscillators with quality assessment Part 1.General specifications;

GB/T 12274.4-2021 Quartz crystal oscillators with quality assessment Part 4.Detailed specification capability approval.

Where to obtain specifications. [1] IEC Q number [2]
date

Electronic components whose quality is assessed according to the following competency approval standards. [3]

General specification. GB/T 12274.1-2012

Sub-standard. GB/T 12274.4-2021

[4]

Shape and dimensions[7]

(Three perspectives).

Dimensions(mm)

Brief description of oscillator types[5]

Shell[6]

Qualified quartz crystal oscillator

Part 4-1.Blank Detailed Specification Capability Approval

1 Rating value (see 3.3 of GB/T 12274.1-2012 for priority rating value)

Priority ratings include.

---range of working temperature;

---Climate category;

---Mechanical test severity.

Note: Information on component manufacturers approved according to this document can be obtained from IEC QC001005.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations

For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to

this document.

GB/T 2828.1-2012 Enumeration sampling inspection procedures Part 1.Batch-by-batch inspection sampling retrieved by acceptance quality limit (AQL)

Plan (ISO 2859-1.1999,IDT)

Note: There is no technical difference between the quoted content of GB/T 2828.1-2012 and the quoted content of IEC 60410.1973.

GB/T 12274.1-2012 Quartz crystal oscillators with quality assessment Part 1.General specifications (IEC 60679-1.2007,

MOD)

Note: There is no technical difference between the quoted content of GB/T 12274.1-2012 and the quoted content of IEC 60679-1.2007.

GB/T 12274.4-2021 Quartz crystal oscillators with quality assessment Part 4.Sub-specification capability approval (IEC 60679-

4.1997,IDT)