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

**GB/T 22317.401-2023**

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**Piezoelectric filters of assessed quality - Part 4-1: Blank detail  
specification - Capability approval**

有质量评定的压电滤波器 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 22317 "Piezoelectric Filters with Quality Assessment". GB/T 22317 has released the following

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 60368-4-1.2000 "Piezoelectric filters with quality assessment Part 4-1. Blank detailed specification capabilities"

Powerful 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 22317 "Piezoelectric Filters with Quality Assessment" aims to provide general requirements and quality assessment procedures for piezoelectric filters. It is planned to be

It consists of the following 6 parts.

Part 1. General specifications. The purpose is to specify the terms and definitions of piezoelectric filters, as well as the general requirements for quality assessment procedures.

Part 2-1. Quartz Crystal Filter Usage Guide. The purpose is to give the types, structures and general principles of quartz crystal filters.

Therefore, it provides guidance for users to reasonably select quartz crystal filters and meet their usage needs.

Part 2-2. Guidelines for the use of piezoelectric ceramics. The purpose is to give the type, structure and general principles of piezoelectric ceramic filters, so as to provide

Provide guidance for users to choose piezoelectric ceramic filters appropriately and meet their usage needs.

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

definition.

Part 4. Sub-standard capability approval. The purpose is to give priority and applicable requirements for piezoelectric filters based on capability approval.

Measurement methods and give the general performance requirements adopted in the detailed specifications.

Part 4-1. Blank Detailed Specification Capability Approval. The purpose is to give detailed specifications for piezoelectric filters based on capability approval

format and minimum content requirements.

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

The following detailed specification home page format is only applicable to standard product piezoelectric filters.

For customized piezoelectric filters, if there is no plan to publish detailed specifications, it is recommended to use the home page format in Appendix A. This format is not mandatory

Sexual, but recommended to be followed whenever possible.

For the numbers in square brackets in the home page format, it is advisable to fill in the following corresponding items in the corresponding positions.

[1] The national standardization authority that issues detailed specifications according to its authority. Where applicable, obtain detailed specifications from the department.

[2] IEC Q number and assigned detail specification number.

[3] The number and version number of the relevant IEC general specification or

sub-standard, if there is any difference, plus the relevant information of the national standard.

[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 piezoelectric filter or range of piezoelectric filters (e.g., center frequency and filter type).

[6] Information on typical structures (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 compliance with IEC 60368-3 and/or in compliance with corresponding national or international standard documents

Regarding appearance requirements. 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 22317.1-2008 Piezoelectric filters with quality assessment Part 1.General specifications;

GB/T 22317.4-2023 Piezoelectric filters with quality assessment Part 4.Sub-specification capability approval.

Specifications are available from [1] IEC Q number [2]  
date

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

General specification. GB/T 22317.1

Sub-standard. GB/T 22317.4

[4]

Shape and dimensions[7]

(Three perspectives).

Dimensions(mm)

Filter type[5]

Shell[6]

Quality rated piezoelectric filters

Part 4-1.Blank Detailed Specification Capability Approval

## **1 Rating value (see 2.3 of GB/T 22317.1-2008 for priority rating value)**

Priority ratings include.

---range of working temperature;

---climate type;

---Mechanical test severity.

**Note:** IEC QC001005 stipulates relevant information about qualified component manufacturers that comply with this document.

## **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 22317.1-2008 Piezoelectric filters with quality assessment Part 1.General specifications (IEC 60368-1.2000, IDT)

GB/T 22317.4-2023 Piezoelectric filters with quality assessment Part 4.Sub-specification capability approval (IEC 60368-4.

2000,IDT)

## **3 Terms and definitions**

There are no terms or definitions that need to be defined in this document.