SLOVENSKI STANDARD
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Blank detail specification: Surface acoustic wave (SAW) filters - Capability approval

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Vordruck für Bauartspezifikation: Oberflächenwellen (OFW-) Filter - Befähigungsanerkennung

Spécification particulière cadre: Filtres à Ondes Acoustiques de Surface (OAS) - Agrément de savoir-faire

Ta slovenski standard je istoveten z: EN 166101:1999

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31.160	Elektriļ ni filtri	Electric filters

SIST EN 166101:2002 **en**

EUROPEAN STANDARD

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 49, Piezoelectric devices for frequency control and selection.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 166101 on 1999-01-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2000-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2000-01-01

BLANK DETAIL SPECIFICATION

A blank detail specification is a supplementary document to the sectional specification and contains requirements for the minimum content of detail specifications.

The front page layout shown on page 4 is applicable to detail specifications for standard catalogue items only.

For custom-built surface acoustic wave filters where the detail specification is not intended for publication, a suggested layout for the front page is given in Annex A. This is not mandatory, but it is recommended that the layout should be followed whenever possible.

KEY FOR PAGE 4

The numbers between the brackets on page 4 correspond to the following information which should be given in the appropriate boxes.

(1). The name of the National Standards Organization under whose authority the detail specification is published and, if applicable, the organization from whom the detail specification is available.

(2). The EN symbol and the number allotted to the detail specification by the Secretariat.

(3). The number and issue number of the EN generic or sectional specification as relevant; also national reference if different.

(4). If different from the EN number, the national number of the detail specification, date of issue and any further information required by the national system, together with any amendment numbers.

(5). A brief description of the surface acoustic wave filter or range of surface acoustic wave filters. (For example, centre frequency and type of filter).

(6). Information on typical construction (where applicable). (For example resistance welded, cold welded).

For (5) and (6) the text to be given in the detail specification should be suitable for an entry in CECC 00 200 (QPL) and CECC 00 300 (Library List).

(7). An outline drawing with main dimensions which are of importance for interchangeability and/or reference to the appropriate national or international document for outlines. Alternatively, this drawing may be given in an annex to the detail specification.

Specification available from : (1)	(2) EN 166101-XXX Page 1 of ...
ELECTRONIC COMPONENTS OF ASSESSED QUALITY BY CAPABILITY APPROVAL IN ACCORDANCE WITH : (3)	(4)
Outline and dimensions - (first angle projection) : (7) Dimensions in mm	(5) ENCLOSURE (6)

1. RATINGS (see 2.4 of EN 166000 for preferred ratings)

Operating temperature range

Climatic category

Mechanical test severities

Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00 200.

2. CHARACTERISTICS (see 2.3 of EN 166000)

Nominal frequency

Reference temperature

Frequency tolerance (s) (if applicable)

Passband and/or stopband attenuation

Passband ripple

Insertion attenuation

Terminating impedances

In addition other characteristics may be stated.

Note: Information on the above characteristics may be given in tabular form if necessary.

3. RELATED DOCUMENTS

Generic specification EN 166000
Sectional specification EN 166100

4. MARKING

The marking of the surface acoustic wave filter and the primary package shall be in accordance with the requirements of 2.5 of EN 166000. Full details shall be given in the detail specification.

5. ORDERING INFORMATION

The following ordering information shall be specified :

(1) Quantity
(2) EN or customer detail specification number, issue number and date.
(3) Nominal frequency expressed in MHz or GHz
(4) Product code
(5) Full description of any additional requirements.

6. CERTIFIED TEST RECORDS

The detail specification shall state whether certified test records are required/not required in accordance with 3.12 of EN 166000.

7. ADDITIONAL INFORMATION (not for inspection purposes)

The detail specification may include information (which is not normally required to be verified by the inspection procedure) such as circuit diagrams, curves, drawings and notes for the clarification of the detail specification.

8. INSPECTION REQUIREMENTS

Clause numbers of tests and performance requirements refer to EN 166000 and are given in table 1.

In this table

D = destructive
ND = non-destructive

The manufacturer and their customers shall ensure that any quality aspects of the surface acoustic wave filter to be supplied that are not covered by the maintenance of the capability approval programme are included in the detail specification.

This blank detail specification does not include any periodic tests as these are controlled by the CQC testing under the maintenance of the capability approval as defined in 3.11 and 3.12 of EN 166100.

TABLE 1

Clause number and test	D or ND	Conditions of test	Performance requirements
100% INSPECTION	ND		
4.3.1 Visual test A		4.3.1	4.3.1
4.5.2 Insertion attenuation characteristics			
- Pass band		min. or max. frequency (ies) according to filter type if applicable	specified values
- Stop band		min. or max. frequency (ies) according to filter type if applicable	specified values
- Insertion attenuation		at specified frequency (ies) according to filter type if applicable	specified values
- Pass band ripple		at specified frequency (ies) according to filter type if applicable	specified values
GROUP B INSPECTION			
To be conducted on a sampling basis			
Sub-Group B1	ND		
4.4.1 Dimensions Test A		4.4.1	specified values
Sub-Group B2	ND		
To be conducted on a sampling basis			
4.6.2 Fine leak test		4.6.2	specified values