

ICS 33.120.30

CCS L 23



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

GB/T 11313.1-2013

Replacing GB/T 11313-1996; GB/T 11313.1-2000

**Radio-frequency connectors -- Part 1: Generic specification --
General requirements and measuring methods**

射频连接器 第1部分：总规范 一般要求和试验方法

(English Translation)

Issued on: November 12, 2013

Implemented on: April 15, 2014

Issued by: Standardization Administration of China

Table of Contents

Introduction

1 Scope

2 Objective

3 Normative references

4 Terms and definitions

4.1 Connector part 2 generic term

Basic terms 4.2 connector

4.3 The term structure

4.4 Seal

4.5 Other terms and related terms 5 measuring equipment

4.6 General Electrotechnical terminology

5 Units, symbols, and size

5.1 Units and Symbols

5.2 Size

6 Standard ratings and characteristics

7 Climate classification

8 IEC model named

9 Test methods

9.1 Overview

9.2 Electrical test and measurement procedures

9.3 Mechanical tests and test procedures

9.4 Climatic conditions tried and tested

9.5 Mechanical durability

9.6 High-temperature durability

9.7 Resistance to solvents and contaminating fluids

10 54 quality assessment

10.1 Overview

Foreword

GB/T 11313 "RF connector" is divided into the following sections.

--- Part 1. Generic specification - General requirements and test methods

--- Part 2. 9.52 RF coaxial connector specification this section GB/T 11313 Part 1.

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

This Part replaces GB/T 11313-1996 "RF connectors - Part 1. Generic specification - General requirements and test methods" GB/T 11313.1-2000 "RF connectors - Part 1-1. Blank detail specification for single or multi-family." this portion of the GB/T 11313-1996, compared the main technical changes are as follows.

--- Increase the "d) When the mating cable connector continuity measurement, care should be taken to avoid the thermal coefficient of resistance of the cable and produce erroneous results. "(See 9.2.3.4)

--- Added "safety wire hole strength" (see 9.3.15).

--- Added "fixed number of sampling procedures and inspection requirements of the test schedule" (see 10.3.3).

--- Added Appendix C (informative) determine cable retention tensile strength test to be applied and the torque guidelines and some typical Recommended cable (see Appendix C).

--- Increasing the type designation (see Appendix D).

This section compared with the GB/T 11313.1-2000 main technical changes are as follows.

--- Remove the GB/T 11313.1 of the entire contents.

This section uses the translation method is equivalent to using IEC 61169-1:1998 "RF connectors - Part 1. Generic specification - General requirements and test method".

This part made the following editorial changes.

--- "9.1 Overview" in paragraph 4, "Group Test table as shown in Appendix A" to "test group See Table 10.3.2.3".

--- "9.1.2 visual inspection", the "flag shall comply with the provisions of 11.2" with the words "flag shall comply with the provisions of 11.1."

--- The "9.2.1.7.2 error-free recognition methods comply with the provisions of 9.2.1.1" with "9.2.1.7.2 and 9.2.1.4 accord the method of the error-free identification of the provisions of 9.2.1.5. "

--- The "9.2.1.7.3 erroneous recognition methods comply with the provisions of 9.2.1.4" with "9.2.1.7.3 in line with 9.2.1.6 Regulation Given a margin of error recognition method. "

--- IEC 61169-1:1998 number of tables in a lot of confusion, this section of the table numbers were corrected.

Increasing the model name (see Appendix D).

Consistency correspondence between this part of international documents and normative

references of our files are as follows.

- GB/T 2423.23-1995 Environmental testing for electric and electronic products Test Q. Sealing (eqv IEC 60068-2-17. 1978);
- GB/T 2987-1996 Parameters symbol tube (neq IEC 60027-1.1992, IEC 60027-2. 1972);
- GB 3100-1993 International System of Units and Its Application (eqv ISO 1000:1992);
- GB/T 14313-1993 Precision hard coaxial cable and precision connector Generic specification (eqv IEC 60457-1. 1974);
- GB/T 15396-1994 RF cables and connectors for hexagonal and square die cavities, indentors, gauges, outer conductor crimp Sleeves and center contact crimp wire barrel dimensions (eqv IEC 60803. 1984).

Please note that some of the content of this section may involve patents. This part of the release mechanism does not assume the responsibility to identify these patents.

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

This section is under the jurisdiction of the National electronic equipment with a high-frequency cables and connectors Standardization Technical Committee (SAC/TC190).

This section drafted by. China Electronics Standardization Institute.

1 Scope

GB/T 11313 provisions of this part of the RF connector General requirements and test methods.

This section applies to communications, electronic equipment and similar equipment in connection with the RF transmission line.

Objective 2

As a general norm in this part, it is to develop each connector specification basis. Its purpose is to establish uniform following concepts and procedures.

- the term;
- Standard ratings and characteristics;
- Electrical and mechanical properties of test and measurement procedures;
- Environmental testing procedures by temperature, humidity and vibration divided connector category.

This section of the test methods and procedures applicable to the identification and recognition of approval test. When agreed between manufacturer and user, this section it

can also be used as the basis of the acceptance tests.

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 2421.1-2008 Environmental testing for electric and electronic products overview and guidance (IEC 60068-1. 1988, IDT) GB/T 2423.1-2008 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (IEC 60068-2-1. 2007, IDT)

GB/T 2423.2-2008 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat (IEC 60068-2-2. 2007, IDT)

GB/T 2423.3-2006 Environmental testing for electric and electronic products Part 2. Test methods - Test Cab. Damp heat test (IEC 60068-2-78:2001, IDT) GB/T 2423.4-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test Db alternating hot and humid (12h 12h cycle) (IEC 60068-2-30:2005, IDT) GB/T 2423.5-1995 Environmental testing for electric and electronic products Part 2. Test methods Test Ea and guidance. Shock (Idt IEC 60068-2-27. 1987) GB/T 2423.6-1995 Environmental testing for electric and electronic products Part 2. Test methods - Test Eb and guidance. Bump (Idt IEC 60068-2-29. 1987) GB/T 2423.10-1995 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) (Idt IEC 60068-2-6. 1982) GB/T 2423.17-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test Ka. Salt (IEC 60068-2-11. 1981, IDT) GB/T 2423.18-2012 Environmental testing for electric and electronic products Part 2. Test methods - Test Kb. Salt mist, cyclic (chloride