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

GB/T 11313.29-2015

Radio frequency connectors -- Part 29: Sectional specification for miniature radio frequency coaxial connector (type 1.0/2.3) with screw, snap-on, push-pull or quick-lock, slide-in (rack and panel applications) mechanism with characteristic impedance 50 ??

(English Translation)

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Foreword

GB/T 11313 "RF Connectors" have or plan to release the following sections.

- Part 1. Generic specification and test methods - General requirements;
- Part 2. RF coaxial connectors 9.52 specification;
- Part 3. balanced antenna feeder with two-pin connector;
- Part 4. inner diameter of outer conductor 16mm (0.63in), the characteristic impedance of 50ohm, RF coaxial connector threaded connection (7-16);
- Part --- Article 5. 96IEC 50-17 and larger cable specification for radio frequency coaxial connector;
- Part 6. 96IEC 75-17 and greater RF coaxial cable connector specification;
- Part --- Article 7. C Series RF coaxial connector specification;
- Part 8. inner diameter of the outer conductor 6.5mm (0.256in), a characteristic impedance of 50ohm (75ohm), RF coaxial connector bayonet connection Connector (BNC type) specification;
- Part 9. SMC Series RF coaxial connector specification;
- Part --- Article 10. SMB series RF coaxial connectors specification;
- Part 11. 4.1/9.5 series RF coaxial connector specification;
- Part --- Article 12. UHF series RF coaxial connectors specification;
- Part 13. inner diameter of the outer conductor 5.6mm (0.22in), mating with the same size of a characteristic impedance of 75ohm (1.6/5.6 Type) and a characteristic impedance of 50ohm (1.8/5.6 type) RF coaxial connector specification;

--- Part 14. inner diameter of outer conductor 12mm (0.472in), a characteristic impedance of 75ohm, RF coaxial connectors with screw connection (3.5/12 type) specification;

Part --- Article 15. SMA Series RF coaxial connector specification;

--- Part 16. inner diameter of the outer conductor 7mm (0.276in), a characteristic impedance of 50ohm (75ohm), RF coaxial threaded connection Connector (N-type) specification;

--- Part 17. inner diameter of the outer conductor 6.5mm (0.256in), a characteristic impedance of 50ohm, RF coaxial connectors with screw connection (TNC type) specification;

Part --- Article 18. SSMA series RF coaxial connector specification;

Part --- Article 19. SSMB series RF coaxial connectors specification;

--- Part 20. SSMC series RF coaxial connectors specification;

Part --- Article 21. SC-A and SC-B Series Series RF coaxial connector specification;

--- Part 22. BNO Series RF coaxial connector specification;

--- Part 23. 3.5mm with rigid precision coaxial lines with the outer conductor inner diameter of 3.5mm (0.1378in) RF coaxial Connector specification;

--- Part 24. 75ohm RF coaxial cable distribution system is connected with a threaded connector (F-type) specification;

--- Part 25. Connect the inner conductor double shielded symmetrical cable outer conductor inner diameter of 13.56mm (0.534in) of holes threaded connection Sectional specification;

--- Part 26. TNCA series RF coaxial connectors specification;

--- Part 27. 75ohm cable distribution systems with a threaded connection RF coaxial connectors (E-type) specification;

--- Part 28. characteristic impedance of 75ohm, card lock connection, the outer conductor inner diameter of 5.60mm (0.220in) RF coaxial connector Specification;

Part --- Article 29. 50ohm and 75ohm characteristic impedance of 50ohm, a threaded, push-pull, quick lock or slide rack or panel with a small RF coaxial connectors (1.0/2.3 type) specification;

--- Part 31. inner diameter of the outer conductor 1.0mm (0.039in), the characteristic impedance of 50ohm, RF coaxial connector threaded connection (1.0 type) specification;

--- Part 32. inner diameter of the outer conductor is 1.85mm (0.072in), the characteristic impedance of 50ohm, RF coaxial connector threaded connection (1.85 type) specification;

Part --- Article 33. BMA Series RF connector specification;

- Part 35. 2.92 Series RF coaxial connector specification;
- Part 36. characteristic impedance of 50ohm of the snap connection miniature RF coaxial connectors (MCX type);
- Part --- Article 37. STWX8 series RF coaxial connectors specification;
- Part 38. 50ohm back and slide-in module panel RF coaxial connector (TMA type) specification;
- Part 39. CQM series quick lock RF coaxial connectors specification;
- Part 40. RF coaxial connectors series 2.4 specification;
- Part 41. CQA series quick lock RF coaxial connectors specification;
- Part 42. CQN series quick lock RF coaxial connectors specification;
- Part --- Article 43. RBMA series blind mating RF coaxial connectors specification;
- Part --- Article 44. SMP series RF coaxial connectors specification;
- Part --- Article 45. SQMA series quick lock RF coaxial connectors specification;
- Part 47. Fquick series 75ohm cable distribution systems specification for plug-in radio frequency coaxial connector;
- Part --- Article 48. BMP series blind mating RF coaxial connectors specification;
- Part --- Article 49. SMAA series RF coaxial connectors specification;
- Section 101. MMCX Series RF coaxial connector specification.

This section GB/T 11313 Part 29.

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

This section uses redrafted law Reference IEC 61169-29:2005 "radio frequency connectors - Part 29. characteristic impedance of 50ohm, having Threads, latches, push-pull or quick-lock, slide connection (rack and panel - RF Coaxial connectors (1.0/2.3 type) single article Norms ", and IEC 61169-29:2005 is non-equivalent.

This part of IEC 61169-29:2005 The main difference is as follows.

- IEC 61169-29. "1" and 2005's "2 Normative references" by sub-standard format has been adapted;
- Remove the IEC 61169-29:2005's "3 IEC model name" and "Connector Description";
- IEC 61169-29:2005's "4 interface Size" sub-standard format by a separate drawing (Figure 1, Figure 2);
- IEC 61169-29:2005 4.1.1 adds "3.1.3 connection mechanism and recommended

installation dimension" to modify some of the graphics (Figure 3, Table 3);

--- IEC 61169-29:2005's "4.2 standard gauge" test procedures by sub-standard format has been adapted (see Section 3.2);

--- IEC 61169-29. 4.2.2 Graphics 2005 increased geometric tolerance (see Fig. 6 and 7);

--- IEC 61169-29:2005's "5.2 ratings and characteristics," according to the format specification has been adapted, and be part of the rating A sound (see Table 8);

--- Information Appendix A Appendix increase "model name";

--- According to the new drawing and dimensioning requirements for all graphics redrawn (Figures 1, 2, 3, 4, 5, 6, 7).

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of 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 is drafted. Zhenjiang Blue Arrow Electronics Co., Ltd., China Electronics Standardization Institute.

1 Scope

GB/T 11313 in this section applies to the 1.0/2.3-type small RF coaxial connector which has a thread, card lock, sliding and sliding four kinds Type of connection mechanism, characteristic impedance of 50ohm, soft and semi-rigid connecting RF cable can be used for 50ohm and 75ohm low-power applications.

When mated with 50ohm cable, operating frequency up to 10GHz; when connected to 75ohm cable, operating frequency up to 2GHz.

This section provides both general and grade 2 0 connector mating interface dimensions, standard gauge testing requirements, as well as product ratings and characteristics from the GB/T 11313.1-2013 select suitable for 1.0/2.3-type connector all the detailed specification of a list of test and inspection requirements.

This section shows the recommended performance characteristics when preparing a detailed specification should be considered, including the M-Class and H-level assessment level List of test and inspection requirements.

This section presents the development of 1.0/2.3 RF coaxial connectors detailed specification and content rules, and blank detail specification format.