

ICS 33.120.40
CCS M 50



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

GB/T 9410-2008

Replacing GB/T 9410-1988

**General specification for antennas used in the mobile
communications**

移动通信天线通用技术规范

(English Translation)

Issued on: April 11, 2008

Implemented on: September 1, 2008

Issued by: Standardization Administration of China

Table of Contents

Introduction	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 3 Technical requirements	
4.1 General structure of claim	
4.2 Electrical properties technical requirements	
4.3 Environmental Adaptability Requirement	
Test Method 4	
5.1 Test conditions	
5.2 General construction requirements Detection	
5.3 Electrical measurements Method	
5.4 Environmental requirements and test methods	
9 6 Inspection Rules	
6.1 Identification Test	
6.2 Quality conformance inspection	
7 Signs, packaging, transportation and storage	
7.1 Marks	
7.2 Packaging	
7.3 Transport	
7.4 Storage	
Appendix A (informative) Explanation antenna test site	

Foreword

This standard replaces GB/T 9410-1988, the main changes compared to the present standard and GB/T 9410-1988 as follows.

- a) modify the frequency range;
- b) to modify some of the terminology;
- c) modify the pattern measurement requirements;
- d) modifying the antenna gain measuring step;

- e) modified the method of measuring the voltage standing wave ratio;
- f) Remove the rated voltage measurements;
- g) Remove the measurement frequency bandwidth.

This standard corresponds to IEC 60489-8:2000 "Methods of measurement for radio equipment used in mobile devices - Part 8. antenna and ancillary equipment the measurement method ", with its non-equivalent. The main differences are as follows.

--- According to Chinese customs for formatting has been modified;

--- According to China's actual situation, remove the relative antenna gain measurement, intermittent power measurement and the measurement of the rated voltage;

--- Increased environmental requirements and test methods, inspection rules and signs, packaging, transportation and storage.

The standard proposed by the People's Republic of China Ministry of Information Industry.

The standard by the China Electronics Standardization Institute.

This standard drafting units. China Electronics Technology Group Corporation seventh Research Institute.

Participated in the drafting of this standard. Guangzhou GCI Science & Technology Co., Ltd., Comba Telecom Systems (Guangzhou) Co., Ltd., Foshan Sanshui Shing Road Antenna Co., Ltd., Xi'an Haitian Antenna Technologies Co., Ltd., Guangzhou Gaoke Communication Technology Co., Mobi Antenna Technologies (Shenzhen) Co., Ltd., Zhongshan City Tongyu Communication Equipment Co., Ltd.

1 Scope

This standard gives the common terms and definitions of mobile communication antenna, provides its technical requirements, test methods, inspection rules, and standard Chi, packaging, transportation and storage requirements.

This standard applies to 25MHz ~ 6000MHz band mobile communication linearly polarized passive antenna.

This standard is to develop the basic principles and minimum requirements for mobile communications antenna product specifications must be followed.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to

the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191 Packaging - Pictorial signs (GB/T 191-2000, eqv ISO 780:1997) GB/T 2423.1-2001 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (idt IEC 60068-2-1:1990) GB/T 2423.2-2001 Environmental testing for electric and electronic products Part 2. Test methods Test B. high temperature (idt IEC 60068-2-2. 1974) GB/T 2423.3-1993 electric and electronic products environmental testing procedures Test Ca. Damp heat test method (eqv IEC 60068-2-3. 1984) 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 and guidance. Vibration (n Chord) (idt IEC 60068-2-6. 1982) GB/T 2828.1-2003 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch test sample Programme (ISO 2859-1:1999, IDT) GB/T 2829-2002 period inspection Sampling procedures and tables (suitable for process stability test)

3 Terms and Definitions

The following terms and definitions apply to this standard.

Can effectively radiate or receive electromagnetic waves, transmission line and a device space or other media coupled together. It includes until the transfer Line ports until all matching, balance, phase, or other coupling means.

Antenna used in the mobile communication system.

An antenna having a uniform intensity of radiation in the horizontal plane.