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

GB/T 30556.7-2014

**Electromagnetic compatibility -- Installation and mitigation
guidelines -- Degrees of protection provided by enclosures
against electromagnetic disturbances (EM code)**

电磁兼容 安装和减缓导则 外壳的电磁骚扰防护等级 (EM编码)

(English Translation)

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Foreword

GB/T 30556 "EMC Installation and mitigation guidelines" is divided into the following sections.

--- Part 1. General considerations;

--- Part 2. grounding and cable;

This section GB/T Part of 730,556.

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

This section uses the translation method identical with IEC 61000-5-7:2001

"Electromagnetic compatibility - Part 5-7. Installation and mitigation guidelines for housing Electromagnetic disturbance protection level (EM code). " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 2900.71-2008 Electrotechnical terminology of electrical equipment (IEC 60050-826:2004, IDT)

--- GB 4208-2008 housing protection (IP Code) (IEC 60529:2001, IDT)

--- GB/T 4365-2003 Electrotechnical terminology Electromagnetic compatibility [IEC 60050 (161).1990, IDT]

--- GB/T 17626.3-2006 Electromagnetic compatibility - Testing and measurement techniques RFEMS test (IEC 61000-4-3:2002, IDT) this section also made the following editorial changes.

--- The original Table 1 expanded to Tables 1 and 2, and thereafter tables table sequence postponed;

--- The original contents of Chapters 3 and 4 of the swap.

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.

Electromagnetic Compatibility This part of the National Standardization Technical Committee (SAC/TC246) and focal points.

This section drafted by. Ministry of Information Industry Institute of Electronics and industrial standardization.

1 Scope

GB/T 30556 provisions of this part of the electromagnetic disturbance shell protection grade performance requirements, test methods and classification.

This section applies to an empty shell shielding performance measurement, frequency range of 10kHz ~ 40GHz.

Shielding performance should be before the internal electrical and/or electronic equipment and components installation measurements. Shielding for the purpose of measuring table Description. When compliance testing in accordance with this series of standards on electromagnetic energy can be appropriately shielded enclosure after complete installation of the equipment provided Helping to meet the performance requirements. However, it should be noted that even if there is an empty shell satisfactory performance, it does not ensure a complete installation set Preparation at work will meet all performance tests of EMC standards (see Appendix A).

The purpose of this section is to provide a repeatable test method, this method to evaluate chassis and racks empty shell of shielding structure Energy, and provides coding allowing the manufacturer according to known electromagnetic attenuation ability to choose housing. When deciding on the specific equipment and special use when using this part of the way, and the shielding requirements is a function of frequency of such specific shell is made of this part, for various types of electromagnetic disturbance [Including lightning and high-altitude electromagnetic pulse (HEMP)] its immunity claim made by the manufacturer.

Classification system used in this section, where possible, the case will be described in greater consistency electromagnetic stress protection. This includes Within the housing of the device from external electromagnetic stress protection, which is consistent protection against internally generated electromagnetic stress with external devices.

Technical Committee responsible for housing portion can be determined as defined in this section applies to their standard classification of the extent and manner to be Re "shell" defined for their equipment. However, the testing and performance of different categories and can not be specified in this section. Related Detailed provisions of the housing product standards in Appendix B of informative guidelines.

2 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.

IEC 60050 (161) International Electrotechnical Vocabulary (IEV) Chapter 161. Electromagnetic compatibility [InternationalElectrotechnicalVo-cabulary (IEV) -Chapter161. Electromagneticcompatibility] IEC 60050 (826) International Electrotechnical Vocabulary (IEV) Chapter 826. building electrical installations [InternationalElectrotech-nicalVocabulary (IEV) -Chapter826. Electricalinstalationsofbuildings] IEC 60529 protection provided by enclosures (IP code) [Degreesofprotectionprovidedbyenclosures (IPCode)] IEC 61000-4-3 Electromagnetic compatibility (EMC) - Part 4. Testing and measurement techniques - Part 3 of 5. RF electromagnetic radiation anti-Scrambling Test [Electromagneticcompatibility (EMC) -Part 4. Testingandmeasurementtechniques-Sec-tion3. Radiated, radio-frequency, electromagneticfieldimmunitytest]

3 Terms and Definitions

IEC 60050 (161) and IEC 60050 (826) defined by the following terms and definitions apply to this document.

DB decibel (dB)

Bell's one-tenth of its value indicates the amount of power of the two ratios. This is the number of decibels compared to the base 10 of 10 times. In P1