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

GB/T 2423.60-2008

**Environmental testing - Part 2: Test methods - Test U:
Robustness of terminations and integral mounting devices
(English Translation)**

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Foreword

See Annex NA for the parts of GB/T 2423 "Environmental testing for electric and electronic products - Part 2.Test methods".

This Part is Part 60 of GB/T 2423.

This Part identically adopts IEC 60068-2-21.2006 "Environmental testing - Part 2-21. Tests - Test U. Robustness of terminations and integral mounting devices" (English version). It only made the following editorial modifications.

- modified "this Part of IEC 60068" to "this Part of GB/T 2423" or "this Part";
- used decimal point "." to replace comma "," that is used as decimal point;
- deleted the foreword of the international standard;
- added the informative Annex NA.

Annex A, Annex NA of this Part are informative.

This Standard was proposed by and shall be under the jurisdiction of National Technical Committee on Environmental Conditions and Environmental Tests of Electrical and Electronic Products of Standardization Administration of China (SAC/TC 8).

Main drafting organizations of this Standard. Guangzhou University, Fifth Electronics

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Environmental testing for electric and electronic products -

Part 2. Test methods - Test U. Robustness of terminations

and integral mounting devices

1 Scope

This Part of GB/T 2423 is applicable to all electrical and electronic components whose terminations or integral mounting devices are liable to be submitted to stresses during normal assembly or handling operations.

2 Normative references

The provisions in following documents become the provisions of this Part of GB/T

2423 through reference in this Part. For dated references, the subsequent amendments

(excluding corrigendum) or revisions do not apply to this Part, however, parties who reach an agreement based on this Part are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

3 Test Ua1.tensile

This test is applicable to all types of terminations.

The specimen shall be visually inspected and electrically and mechanically checked, as required by the relevant specification.

4 Test Ua2.thrust

The method of preconditioning shall be as prescribed in the relevant specification.

The specimen shall be visually inspected and electrically and mechanically checked, as

required by the relevant specification.

5 Test Ub. bending

This test is applicable to pliable terminations only.

Unless otherwise specified in the relevant specification, the test method shall be as follows.

The specimen shall be visually inspected and electrically and mechanically checked, as required by the relevant specification.

6 Test Uc. torsion

The specimen shall be visually inspected and electrically and mechanically checked as required by the relevant specification.

Each termination shall be bent through 90° at a point 6 mm to 6.5 mm from the point of emergence of the termination.

7 Test Ud. torque

The method of preconditioning shall be as prescribed in the relevant specification.

Unless otherwise specified in the relevant specification, the test method shall be as follows.

The specimen shall be visually inspected and electrically and mechanically checked, as required by the relevant specification.

8 Test Ue. robustness of terminations for SMD in the mounted state

The dimensions for the soldering lands on the substrate shall be prescribed by the IEC 61188-5 series or the relevant specifications.

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