

ICS 29.035.99

CCS K 15



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

GB/T 20633.2-2011

**Coatings for loaded printed wire boards (conformal coatings) --
Part 2: Methods of test**

承载印制电路板用涂料(敷形涂料) 第2部分：试验方法
(English Translation)

Issued on: December 30, 2011

Implemented on: May 1, 2012

Issued by: Standardization Administration of China

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Foreword

GB/T 20633 "carrier printed circuit board coating (conformal coatings)" is divided into the following sections.

- Part 1. Definitions, classification and general requirements;
- Part 2. Test methods;
- Part 3. general use (1), with high reliability (Class 2) and aerospace (Class 3) paint;

This is Part 2 GB/T 20633 of.

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

This section uses the translation method is equivalent to using IEC 61086-2:2004 "Coatings for loaded printed circuit boards (conformal coatings) - Part 2. Test Test methods. "

Consistency correspondence between this part of international documents and normative references of our files are as follows.

- GB/T 458-2008 Paper and board - Determination of air permeability (ISO 5636-3:1992, MOD);
- GB/T 4722-1992 printed circuit copper clad laminate test methods cover (neq IEC 249-1. 1982);
- GB/T 9271-2008 Paints and varnishes standard test panels (ISO 1514:2004, MOD);
- GB/T 15022.2-2007 electrically insulating resin based reactive compounds - Part 2. Test methods (IEC 60455-2. 1998, MOD).

This part of IEC 61086-2:2004 compared to the technical content has not changed, only deleted on the edit format of the IEC 61086-2:2004 in the "Preface" and "Introduction", the introduction of this part of the content into "preface"; the "Normative references" in the IEC standard used is equivalent to mining National standards instead of standard transformed.

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 China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee of the insulating material (SAC/TC51) centralized.

This part mainly drafted by. Guilin Institute of Electrical Science, Guilin University of Electronic Technology.

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Coatings for loaded printed circuit boards (conformal coatings) Part 2. Test methods

1 Scope

GB/T 20633 provisions of this part of the test method for loaded printed circuit boards with coating (conformal coating) of.

This section applies to test uncured coatings and paints applied to a specific board.

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.

GB/T 1408.1-2006 electrical insulating materials strength test methods - Part 1. Tests at power frequencies (IEC 60243-1:1998, IDT) GB/T 2423.3-2006 Environmental testing for electric and electronic products Part 2. Test methods - Test Cab. Damp heat test (IEC 60058-2-78:2001, IDT) GB/T 2423.16-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test J and guidance. Mould growth (IEC 60068-2-10:2005, IDT) 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 2423.22-2002 Environmental testing for electric and electronic products Part 2. Test methods - Test N. Temperature change (IEC 60068-2-14. 1984, IDT) GB/T 2423.27-2005 Environmental testing for electric and electronic products Part 2. Test methods - Test Z/AMD. low temperature/low air Pressure/heat Continuous comprehensive test (IEC 60068-2-39. 1976, IDT) GB/T 6742-2007 Paints and varnishes bending test (cylindrical axis) (ISO 1519:2002, IDT) GB/T 11020-2005 solid non-metallic materials exposed to flame flammability test method list of source (IEC 60707.

1999, IDT)

GB/T 13452.2-2008 Paints and varnishes - Determination of film thickness (ISO 2808:2007,

IDT) GB/T 20633.1-2006 loaded printed circuit board coating (conformal coatings) - Part 1. Definitions, classification and general requirements (IEC 61086-1:2004, IDT) GB/T 20633.3-2011 loaded printed circuit board coating (conformal coatings) - Part 3. general use (1), high reliability with (Class 2) and aerospace (Class 3) Coatings (IEC 61086-3-1:2004, IDT) ISO 1514:2004 Paints and varnishes - Standard panels for (Paintsandvarnishes-Standardpanelsfortesting) ISO 5636-3:1992 Paper and board Determination of air permeability (medium range) - Part 3. Bent Health (Bendtsen) Act (Paperand board-Determinationofairpermeance (mediumrange) -Part 3. Bendtsenmethod) IEC 60249-1. 1982 substrate for printed circuits - Part 1. Test method (Basicmaterialsforprintedcircuits-Part 1. Testmethods) IEC 60455-2:1998 Electrical insulating resin based reactive compounds - Part 2. Test methods (Resinbasedreactive compoundsusedforelectricalinsulation-Part 2. Methodsoftest)