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Environmental testing procedures of electronic and electrical resistance to solvents (immersion in cleaning solvents)

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

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Environmental testing procedures of electronic and electrical resistance to solvents (immersion in cleaning solvents)

Foreword for Japanese Industrial Standard

This Japanese Industrial Standard has been prepared based on the 1st edition issued in 1980 of **IEC 68-2-45** [*Basic environmental testing procedures, Part 2: Tests, Test XA and guidance: Immersion in cleaning solvents*] and Amendment 1 (1993-02) without changing the technical contents. The contents of Amendment 1 are incorporated into the main text. Some items in the Amendment of the original International Standard are not contained in this Standard.

Furthermore, the matters that are indicated by underline (dotted line) and/or "Informative reference" do not appear in the original International Standard.

1. Scope

This Standard comprises a test procedure whereby specimens to be tested are immersed in a certain solvent at a specified temperature and for a specified time.

If required by the relevant specification, after immersion and drying, specimens shall be rubbed with cotton wool or wrapping tissue paper.

Guidance on the test is given in the appendix A.

2. Object

To determine the effects of prescribed cleaning solvents on electronic components and other parts suitable to be mounted on printed boards when subjected to immersion in the cleaning solvents stated below.

Note. — This test is not intended to simulate the effects of handling.

3. Types of test solvents and conditions

3.1 *Solvents*

Two commonly used solvents are specified for the purpose of this test.

Note. — Successful compliance with this test does not imply resistance to other solvents.

3.1.1 The mixture of 1,1,2-trichlorotrifluoroethane (R113, **ISO/R 817**-1974) and isopropyl alcohol is hazardous to the environment; therefore, the solvent specified in sub-clause **3.1.2** shall be used.

Informative reference : The solvent specified in sub-clause **3.1.1** shall not be used where the solvent specified in sub-clause **3.1.2** is adequate, in accordance with **IEC68-2-45**, Amendment 1 (1993-02). Therefor the solvent above specified shall not be used.

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