AS 60068.2.6—2003
IEC 60068-2-6:1995
IEC 60068-2-6:1995/Corr 1:1995
Reconfirmed 2018

Australian Standard™

Environmental testing

Part 2.6: Tests—Test Fc: Vibration (sinusoidal)

Standards Australia

This Australian Standard was prepared by Committee EL-026, Protective Enclosures and Environmental Testing for Electric/Electronic Equipment. It was approved on behalf of the Council of Standards Australia on 14 February 2003 and published on 20 March 2003.

The following are represented on Committee EL-026:

Australian Chamber of Commerce and Industry

Australian Electrical and Electronic Manufacturer's Association

Electrical Compliance Testing Association

Electrical Regulatory Authorities Council

Electricity Supply Association of Australia

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This Standard was issued in draft form for comment as DR 02481.

STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 60068.2.6–2003
Environmental testing
Part 2.6: Tests–Test Fc: Vibration (sinusoidal)

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 29 August 2018.

NOTES

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First published as AS 60068.2.6—2003.

Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 5084 2

PREFACE

This Standard was prepared by the Standards Australia Committee EL-026, Protective Enclosures and Environmental Testing for Electric/Electronic Equipment.

The objective of this Standard is to provide the electrotechnology industry with a complete set of environmental test procedures published as a series under AS 60068 *Environmental testing*. This Standard is Part 2.6 of that series.

This Standard is identical with, and has been reproduced, from IEC 60068-2-6:1995. *Environmental testing – Part 2: Tests – Test Fc: Vibration (sinusoidal)* including its Corrigendum 1:1995.

As this Standard is reproduced from an International Standard, the following applies:

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

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(c) A full point should be substituted for a comma when referring to a decimal marker.

(d) Any French text on figures should be ignored.

In this Standard, the following print types are used:

– requirements proper: in arial type;

– *test specifications: in italic type;*

– explanatory matter: in smaller arial type.

Any international Standard referenced should be replaced by an equivalent Australian Standard when one is available. The availability of equivalent Australian Standards can be determined either from the Standards Australia catalogue or from the Standards Australia website (www.standards.com.au).

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STANDARDS AUSTRALIA

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1 Scope

This part of IEC 60068 gives a method of test which provides a standard procedure to determine the ability of components, equipment and other articles, hereinafter referred to as specimens, to withstand specified severities of sinusoidal vibration.

The purpose of this test is to determine any mechanical weakness and/or degradation in the specified performance of specimens and to use this information, in conjunction with the relevant specification, to decide the acceptability of the specimens. In some cases, the test method may also be used to demonstrate the mechanical robustness of specimens and/or to study their dynamic behaviour. Categorization of components can also be made on the basis of a selection from within the severities quoted in the test.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60068. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 60068 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60050(721): 1991, *International Electrotechnical Vocabulary (IEV) – Chapter 721: Telegraphy facsimile and data communication*

IEC 60068-1: 1988, *Environmental testing – Part 1: General and guidance*
Amendment 1 (1992)

IEC 60068-2-34: 1973, *Environmental testing – Part 2: Tests – Test Fd: Random vibration wide band – General requirements**
Amendment 1 (1983)

IEC 60068-2-35: 1973, *Environmental testing – Part 2: Tests – Test Fda: Random vibration wide band – Reproducibility High**
Amendment 1 (1983)

IEC 60068-2-36: 1973, *Environmental testing – Part 2: Tests – Test Fdb: Random vibration wide band – Reproducibility Medium**
Amendment 1 (1983)

IEC 60068-2-37: 1973, *Environmental testing – Part 2: Tests – Test Fdc: Random vibration wide band – Reproducibility Low**
Amendment 1 (1983)

* Tests Fd, Fda, Fdb and Fdc are to be withdrawn in 1998.