



# MALAYSIAN STANDARD

MS IEC 60068-2-6:2007

## ENVIRONMENTAL TESTING - PART 2: TESTS - TEST FC: VIBRATION (SINUSOIDAL) (IEC 60068-2-6:1995 AND CORRIGENDUM 1:1995, IDT)

IEC 60068-2-6:1995 and Corrigendum 1: 1995 is endorsed as Malaysian Standard with the reference number MS IEC 60068-2-6:2007.

ICS: 19.040

Descriptors: environmental testing, Fc, vibration, sinusoidal

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## Committee representation

The Electrotechnical-2 Industry Standards Committee (ISC S) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Association of the Computer and Multimedia Industry of Malaysia  
Department of Standards Malaysia  
Federation of Malaysian Manufacturers  
Jabatan Kerja Raya Malaysia  
Kementerian Perdagangan Dalam Negeri dan Hal Ehwal Pengguna  
Malaysian Cable Manufacturers Association  
Malaysian Electrical Appliances and Distributors Association  
Ministry of International Trade and Industry  
Persatuan Pengguna-Pengguna Standard Malaysia  
Pusat Tenaga Malaysia  
SIRIM QAS International Sdn Bhd (Electrotechnical Testing Section)  
SIRIM QAS International Sdn Bhd (Product Certification and Inspection Section)  
Suruhanjaya Komunikasi dan Multimedia Malaysia  
Suruhanjaya Tenaga  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
Universiti Multimedia  
Universiti Tenaga Nasional

The Working Group on Environmental Testing for Electrical and Electronics Equipment which recommends adoption of the IEC Standard consists of representatives from the following organisations:

Jabatan Kerja Raya Malaysia  
Kementerian Tenaga, Air dan Komunikasi  
M dot Mobile Sdn Bhd  
Meteorology Department  
PROTON Engineering Research Technology Sdn Bhd  
SIRIM Berhad (Environmental and Bioprocess Testing Centre)  
SIRIM Berhad (Secretariat)  
SIRIM QAS International Sdn Bhd (Product Certification and Inspection Section)  
Telekom Research and Development Sdn Bhd  
TNB Generation Division  
Universiti Teknologi Malaysia

## **NATIONAL FOREWORD**

The adoption of the IEC Standard as a Malaysian Standard was recommended by the Working Group on Environmental Testing for Electrical and Electronics Equipment under the authority of the Electrotechnical-2 Industry Standards Committee (ISC S).

This Malaysian Standard is identical with IEC 60068-2-6:1995, *Environmental Testing – Part 2: Tests – Test Fc: Vibration (sinusoidal)* and Corrigendum 1:1995, published by the International Electrotechnical Commission (IEC). However, for the purpose of this Malaysian Standard, the following apply:

- a) in the source text, “this International Standard” should read “this Malaysian Standard”;
- b) the comma which is used as a decimal sign (if any), to read as a point;
- c) the basis IEC 60068-2-6 is printed in English and French languages. However, only the English version on odd pages is retained for this Malaysian Standard; and
- d) reference of International Standard should be replaced with equivalent Malaysian Standard:

### International Standard

IEC 60721-1, *Classification of environmental conditions – Part 1: Environmental parameters and their severities*

### Malaysian Standard

MS IEC 60721-1, *Classification of environmental conditions – Part 1: Environmental parameters and their severities*

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1.

ENVIRONMENTAL TESTING –

Part 2: Tests–  
Test Fc: Vibration (sinusoidal)

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*Replace the existing first paragraph of clause 8 by the five following new paragraphs:*

**8 Testing**

The relevant specification shall state the number of axes in which the specimen shall be vibrated and their relative positions. If not stated in the relevant specification, the specimen shall be vibrated in three mutually perpendicular axes in turn which should be so chosen that faults are most likely to be revealed.

The control signal at the reference point shall be derived from the signals at the check points and shall be used for single point or multipoint control (see subclause A.4.5).

The test procedure to be applied shall be chosen, by the relevant specification, from the stages given below. Guidance is given in annex A. In general, the test stages shall be performed in sequence in the same axis and then repeated for the other axes (see clause A.3).

Special action is necessary when a specimen normally intended for use with vibration isolators needs to be tested without them (see clause A.5).

When called for by the relevant specification, control of the specified vibration amplitude shall be supplemented by a maximum limit of the driving force applied to the vibrating system. The method of force limitation shall be stated in the relevant specification (see clause A.7).