

AS 1099.2.27—1988

Australian Standard[®]

**BASIC ENVIRONMENTAL
TESTING PROCEDURES FOR
ELECTROTECHNOLOGY
Part 2.27—TEST Ea: SHOCK**

This Australian Standard was prepared by Committee ET/5, Environmental Testing Procedures. It was approved on behalf of the Council of the Standards Association of Australia on 21 April 1988 and published on 15 July 1988.

The following interests are represented on Committee ET/5:

Aerospace Industries of Australia
Confederation of Australian Industry
Department of Defence
Department of Housing and Construction
Electricity Supply Association of Australia
National Association of Testing Authorities
Society of Automotive Engineers, Australasia
Telecom Australia
The University of New South Wales

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PREFACE

This Standard was prepared by the Association's Committee on Environmental Testing Procedures to supersede AS 1099.2Ea—1971, *Test Ea, Impact—Shock*. This edition is identical with IEC 68-2-27 (Third edition). The IEC page numbers are reproduced at the bottom left hand corner for reference.

The object of the Standard is to determine the suitability of components and equipment for applications where they are subjected to non-repetitive mechanical shocks to assess their structural integrity as a means of quality control.

The shocks are not intended to necessarily be those encountered in practice. Wherever possible, the test severity and the shape of the pulse applied should be such as to reproduce the effects of transport or operational environments to which the specimen will be subjected or to satisfy design requirements.

For the purpose of this Australian Standard the test of the IEC Publication used herein should be modified as follows:

Terminology: The words 'Australian Standard' should replace the words ISO Standard or IEC Publication wherever they appear.

References: The references to International Standards shall be replaced by references to Australian Standards as follows:

<i>Reference to International Standards</i>		<i>Appropriate Australian Standard</i>	
IEC 68	Basic environmental testing procedures	AS 1099	Basic environmental testing procedures for electrotechnology
68-1	Part 1: General and guidance (1982)	AS 1099.1	Part 1: General
68-2	Part 2: Tests (1986)	AS 1099.2	Part 2: Tests
68-2-29	Test Eb and guidance: Bump (1986)	AS 1099.2.29	Test Eb: Bump
68-2-31	Test Ec: Drop and topple (1969)	AS 1099.2.31	Test Ec: Drop and topple
68-2-32	Test Ed: Free fall (1975)	AS 1099.2.32	Test Ed: Free fall
68-2-47	Mounting of components, equipment and other articles for dynamic tests	AS 1099.2.47	Mounting of components, equipment and other articles for dynamic tests
68-2-55	Test Ee and guidance: Bounce	AS 1099.2.55	Test Ee: Bounce
IEC 721.3.	Classification of environmental conditions, Part 3: Classification of groups of environmental parameters and their severities (1984)		No Australian equivalent
721.3.1	Storage (1987)		
721.3.5	Ground vehicle installation (1985)		
ISO 2041	Vibration and shock—Vocabulary (1975)	AS 2606	Vibration and shock—Vocabulary (1975)

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