This is a free page sample. Access the full version online.

AS 60068.2.69—2004
IEC 60068-2-69:1995

AS 60068.2.69

Australian Standard™

Environmental testing

Part 2.69: Tests—Test Te: Soldering—Solderability testing of electronic components for surface mount technology by the wetting balance method

STANDARDS AUSTRALIA

This is a free page sample. Access the full version online.

This Australian Standard was prepared by Committee EL-026, Protective Enclosures and Environmental Testing for Electrical/Electronic Equipment. It was approved on behalf of the Council of Standards Australia on 3 May 2004 and published on 3 June 2004.

The following are represented on Committee EL-026:

Australian Chamber of Commerce and Industry

Australian Electrical and Electronic Manufacture's Association

Electrical Compliance Testing Association

Electrical Regulatory Authorities Council

Energy Supply Association of Australia

Testing Interests (Australia)

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 04141.

This is a free page sample. Access the full version online.

Australian Standard™

Environmental testing

Part 2.69: Tests—Test Te: Soldering—Solderability testing of electronic components for surface mount technology by the wetting balance method

First published as AS 60068.2.69—2004.

COPYRIGHT

© Standards Australia International

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

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

ISBN 0 7337 6012 0

This is a free page sample. Access the full version online.

PREFACE

This Standard was prepared by the Standards Australia Committee EL-026, Protective Enclosures and Environmental Testing for Electrical/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 2.69 of that series.

This Standard is identical with, and has been reproduced from, IEC 60068-2-69:1995, *Environmental testing – Part 2-69: Test Te: Soldering—Solderability testing of electronic components for surface mount technology by the wetting balance method*.

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.

(b) In the source text 'this international standard' should read 'this Australian Standard'.

(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).

This is a free page sample. Access the full version online.

CONTENTS

Page

1 Scope 1
2 Normative references 1
3 General description of the method 1
4 Description of the test apparatus 2
5 Preconditioning 2
5.1 Preparation of specimens 2
5.2 Materials 3
5.2.1 Solder 3
5.2.2 Flux 3
6 Procedures 3
6.1 Test temperature 3
6.2 Solder bath wetting balance procedure 3
6.3 Solder globule wetting balance procedure 5
7 Presentation of results 7
7.1 Form of force versus time trace 7
7.2 Test requirements 8
8 Information to be given in the relevant specification 9
Annex A (normative) Equipment specification 10
Annex B (normative) Use of the wetting balance for SMD solderability testing 12

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation