AS 4423—1996

WITHDRAWN BY
SEPTEMBER 1998

Australian Standard®

Reference guide to Standards for passive electronic components

STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee TE/2, Passive Electronic Components. It was approved on behalf of the Council of Standards Australia on 30 June 1996 and published on 5 September 1996.

The following interests are represented on Committee TE/2:

Australian Chamber of Commerce and Industry

Australian Electrical and Electronic Manufacturers Association

Telstra Corporation

Review of Australian Standards. *To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.*

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Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

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PREFACE

This Standard was prepared by the Standards Australia Committee TE/2 on Passive Electronic Components.

The objective of this Standard is to provide the electrotechnology industry with a guide to the international (IEC) Standards for passive electronic components considered suitable for use in Australia.

This Standard lists all the Australian Standards for passive electronic components which have been withdrawn and superseded by this Standard.

This Standard forms one of a number of publications which provide listings of IEC Standards by subject matter. In addition to those referenced in this Standard, reference guides covering the fields of printed boards, printed board assemblies and electromechanical components for printed boards are planned for publication, to complement the listings in this Standard.

Standards from IEC Technical Committees TC 40, TC 49, TC 51 and Technical Sub-committee SC 32C are covered.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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Australian Standard

Reference guide to Standards for passive electronic components

1 INTRODUCTION The International Electrotechnical Commission (IEC) has published several series of Standards on passive electronic components used in telecommunication and electronic equipment including those for resistors, capacitors, inductors, varistors, transformers, piezoelectric devices and miniature fuses.

This Standard lists all the IEC Standards on passive electronic components used in telecommunication and electronic equipment that are endorsed as suitable for use in the Australian environment, together with a precis of each Standard and a general index.

Equivalent Australian Standards, which were published and have been subsequently withdrawn, have been referenced with the corresponding IEC Standard.

Some IEC component Standards bear a QC number which is the specification number in the IEC Quality Assessment System for Electronic Components (IECQ). This number appears with the title and precis of those particular Standards.

Further guidance on related IEC Standards is available for the following:

(a) Integrated circuits and semiconductor devices including diodes, optoelectronic devices, thyristors and transistors (see AS 4424).

(b) Environmental testing procedures for electronic components (see AS 1099.0).

(c) Environmental testing procedures and measuring methods for electromechanical components (see AS 3726.0).

This Standard does not cover high power components, thermistors, low and high voltage fuses and all the blank detail specification Standards for passive electronic components. Further information on components outside the scope of this document can be found in the Catalogue of IEC Publications.

2 LIST OF WITHDRAWN AUSTRALIAN STANDARDS The Australian Standards on passive electronic components that have been withdrawn and superseded by this Standard are listed in Appendix A.

3 INDEX TO THE IEC STANDARDS An index to IEC Standards on passive electronic components is provided following Appendix A.

4 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS	
1099	Basic environmental testing procedures for electrotechnology
1099.0	Part 0: Introduction and list of Parts of AS 1099 and IEC 68
3726	Electromechanical components for electronic equipment—Basic testing procedures and measuring methods
3726.0	Part 0: Introduction and list of Parts of AS 3726 and IEC 512
4424	Reference guide to Standards for semiconductor devices

IEC	
329	Strip-wound cut cores of grain oriented silicon-iron alloy, used for electronic and telecommunication equipment
404	Magnetic materials
404-1	Part 1: Classification

5 LIST OF IEC STANDARDS FOR PASSIVE ELECTRONIC COMPONENTS

IEC Standard (year)		Title and precis
62	(1992)	**Marking codes for resistors and capacitors** (21 pp) (Fourth edition) Specifies a colour code of 12 colours for values and tolerances of fixed resistors and a letter and digit code for resistance and capacitance values and tolerances.
Amendment No. 1	(1995)	(3 pp) Superseded Australian Standard: AS 2066 (See Appendix A)
63	(1963)	**Preferred number series for resistors and capacitors** (15 pp) (Second edition) Gives preferred values for fixed resistors and capacitors for ordinary and close tolerances of resistors and capacitors used in electronic equipment. Superseded Australian Standard: AS 2065 (See Appendix A)
115 (Main title)		**Fixed resistors for use in electronic equipment** Supersedes IEC 109 (1959)
115-1	(1982)	**Part 1: Generic specification** (67 pp) (Second edition) Applies to fixed resistors for use in electronic equipment. Establishes standard terms, inspection procedures and methods of test for use in specifications for qualification approval and for quality assessment systems for electronic components. QC number: QC 400000
Amendment No. 2	(1987)	(19 pp) Contains Amendment No. 1 and adds four new tests.
Amendment No. 3	(1989)	(19 pp) Includes new paragraphs dealing with mounting, adhesion and bond strength of the end face plating.
Amendment No. 4	(1993)	(9 pp) Superseded Australian Standard: AS 1352.1 (See Appendix A)
115-2	(1982)	**Part 2: Sectional specification: Fixed low-power non-wirewound resistors** (29 pp) (Second edition) Applies to fixed low-power non-wirewound resistors with a dissipation of 4 W or less for use in electronic equipment. Prescribes preferred ratings and characteristics and selects from IEC 115-1 appropriate Quality Assessment procedures, test and measuring methods. Gives general performance requirements. QC number: QC 400100 Superseded Australian Standard: AS 1352.2 (See Appendix A)
115-4	(1982)	**Part 4: Sectional specification: Fixed power resistors** (31 pp) (Second edition) Applies to fixed resistors with rated dissipations greater than 1 W up to 1000 W which are provided with a cover or coating for environmental protection. Prescribes preferred ratings and characteristics and selects from IEC 115-1 appropriate Quality Assessment procedures, tests and measuring methods. Gives general performance requirements. QC number: QC 400200
Amendment No. 1	(1993)	(3 pp)
115-4-101	(1995)	**Part 4: Detail specification: Fixed power wirewound resistors with solderable axial wire leads—Stability class 5%—Assessment level E** (23 pp) (First edition)