

Australian/New Zealand Standard™

**Electromagnetic compatibility—
Requirements for household appliances
electric tools and similar apparatus**

**Part 2: Immunity—Product family
standard**

AS/NZS CISPR 14.2:2003

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TE-003, Electromagnetic Interference. It was approved on behalf of the Council of Standards Australia on 23 July 2003 and on behalf of the Council of Standards New Zealand on 13 December 2002. It was published on 9 October 2003.

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Electromagnetic compatibility— Requirements for household appliances electric tools and similar apparatus

Part 2: Immunity—Product family standard

Originated as AS/NZS 4780:2000.
Jointly revised and redesignated as AS/NZS CISPR 14.2:2003.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE-003, Electromagnetic Interference. It supersedes AS/NZS 4780:2000, *Electromagnetic compatibility—Immunity requirements for household appliances, electric tools and similar apparatus*.

The objective of this Standard is to provide the manufacturers, designers and suppliers of household appliances, electric tools and similar apparatus with limits and methods of measurement with regard to their immunity characteristics to interfering signals.

This Standard is identical with and has been reproduced from CISPR 14-2:2001 Ed 1.1, *Electromagnetic compatibility—Requirements for household appliances, electric tools and similar apparatus, Part 2: Immunity—Product family standard*. This consolidated version of CISPR 14-2 is based on the first edition (1997) [documents CISPR/F/201/FDIS and CISPR/F/206/RVD] and its Amendment 1 (2001) [documents CISPR/F/333/FDIS and CISPR/F/340/RVD].

The CISPR committee has decided that the contents of the base publication and its Amendment will remain unchanged until 2004. At this date, the publication will be reconfirmed, withdrawn, replaced by a revised edition, or amended.

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.

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/New Zealand Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

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Any IEC table, figure or passage of text that is struck-through is not part of this Standard. Any Australian/New Zealand table, figure or passage of text that is added (and identified by shading) is part of this Standard.

1 Scope and object

1.1 This standard deals with the electromagnetic immunity of appliances and similar apparatus for household and similar purposes that use electricity, as well as electric toys and electric tools, the rated voltage of the apparatus being not more than 250 V for single-phase apparatus to be connected to phase and neutral, and 480 V for other apparatus.

Apparatus may incorporate motors, heating elements or their combination, may contain electric or electronic circuitry, and may be powered by the mains, by transformer, by batteries, or by any other electrical power source.

Apparatus not intended for household use, but which nevertheless may require the immunity level, such as apparatus intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard, as far as they are included in CISPR 14, and in addition:

- microwave ovens for domestic use and catering;
- cooking hobs and cooking ovens, heated by means of r.f. energy, (single- and multiple-zone) induction cooking appliances;
- appliances for personal care equipped with radiators in the range from UV to IR, inclusive (this includes visible light).

1.2 This standard does not apply to:

- equipment for lighting purposes;
- apparatus designed exclusively for heavy industrial purposes;
- apparatus intended to be part of the fixed electrical installation of buildings (such as fuses, circuit breakers, cables and switches);
- apparatus intended to be used in locations where special electromagnetic conditions prevail, such as the presence of high e.m. fields (for example in the vicinity of a broadcast transmitting station), or where high pulses occur on the power network (such as in a power generator station);
- radio and television receivers, audio and video equipment, and electronic music instruments other than toys;
- medical electrical appliances;
- personal computers and similar equipment other than toys;
- radio transmitters;
- apparatus designed to be used exclusively in vehicles;
- babies surveillance systems.