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Group**

**C22.2 No. 150-16**

## **Microwave ovens**

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***C22.2 No. 150-16  
August 2016***

**Title:** *Microwave ovens*

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*C22.2 No. 150-16*  
***Microwave ovens***



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*Published in August 2016 by CSA Group  
A not-for-profit private sector organization  
178 Rexdale Boulevard, Toronto, Ontario, Canada M9W 1R3*

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*ISBN 978-1-4883-0449-1*

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# Preface

This is the fourth edition of CSA C22.2 No. 150, *Microwave ovens*, one of a series of Standards issued by CSA Group under Part II of the Canadian Electrical Code. It supersedes the previous editions published in 1989, 1980, and 1974. This Standard also replaces the CSA Technical Information Letter (TIL) No. C-31, *Interim Certification Requirements for Microwave Ovens*.

The major differences between this edition and the previous edition include the addition of requirements for polymeric enclosures, internal wiring flame rating and electrical connections, the nichrome wire ignition test, the potato fire containment test, the waveguide and stirrer fire containment test, and the thermally protected AC fan motor ignition test.

For general information on the Standards of the *Canadian Electrical Code, Part II*, see the Preface of CAN/CSA-C22.2 No. 0, *General requirements — Canadian Electrical Code, Part II*.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Subcommittee on Microwave Ovens, under the jurisdiction of the Technical Committee on Consumer and Commercial Products and the Strategic Steering Committee on Requirements for Electrical Safety.

**Interpretations:** The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA’s procedures for interpretation shall be followed to determine the intended safety principle.”

## Notes:

- 1) *Use of the singular does not exclude the plural, and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization, as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee and yet not be in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to [inquiries@csagroup.org](mailto:inquiries@csagroup.org) and include “Request for interpretation” in the subject line: define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch; provide an explanation of circumstances surrounding the actual field condition; and where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*  
*Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at [standardsactivities.csa.ca](http://standardsactivities.csa.ca).*
- 5) *This Standard is subject to review five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to [inquiries@csagroup.org](mailto:inquiries@csagroup.org) and include “Proposal for change” in the subject line:*
  - a) *Standard designation (number);*
  - b) *relevant clause, table, and/or figure number;*
  - c) *wording of the proposed change; and*
  - d) *rationale for the change*

# C22.2 No. 150-16

## **Microwave ovens**

### **1 Scope**

#### **1.1**

This Standard applies to microwave ovens capable of generating less than 25 kW of microwave power and intended to be used in nonhazardous locations in household and commercial applications, in accordance with *Canadian Electrical Code, Part I* (“CE Code”).

#### **1.2**

This Standard applies to microwave ovens intended to operate through the application of electromagnetic energy at frequencies within the ISM bands above 890 MHz. (See Clause 3.)

#### **1.3**

This Standard applies to

- a) cord-connected microwave ovens intended for
  - i) household use on a nominal system voltage of 120 V; and
  - ii) commercial use on nominal system voltages up to 240 V; and
- b) permanently connected microwave ovens intended for
  - i) household use on a nominal system voltage of 120 V; and
  - ii) commercial use on nominal system voltages up to 600 V.

#### **1.4**

This Standard does not apply to microwave ovens used for industrial applications

### **2 Reference publications**

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

#### **CSA Group**

C22.1-15

*Canadian Electrical Code, Part I*

CAN/CSA-C22.2 No. 0-10 (R2015)

*General Requirements — Canadian Electrical Code, Part II*

C22.2 No. 0.2-16

*Insulation coordination*

C22.2 No. 0.3-09 (R2014)

*Test methods for electrical wires and cables*