

(PREVIEW)

## *Indian Standard*

# CAPACITORS FOR MICROWAVE OVENS

## PART 1 GENERAL

### 1.1 Scope and object

This part of IEC 1270 applies to capacitors for microwave ovens operating at rated a.c. voltages of up to 3000 V and a superimposed d.c. voltage of up to 0.8.  $\sqrt{2}$  times the value of rated a.c. voltage.

This standard relates specifically to capacitors with a metal case and an upper rated maximum temperature of up to 100 °C, non-self-healing, with metal foil electrodes and dielectrics of paper and/or plastic, impregnated with a suitable oil.

The object of this standard is:

- a) to formulate uniform rules regarding performance, testing and rating;
- b) to formulate specific safety rules.

### 1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 1270. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 1270 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards..

IEC 68-1:1988, Environmental testing – Part 1: General and guidance

IEC 68-2, Environmental testing – Part 2: Tests

IEC 68-2-1:1990, Environmental testing – Part 2: Tests – Tests A: Cold

IEC 68-2-3:1969, Environmental testing – Part 2: Tests - Test Ca: Damp heat, steady state

IEC 68-2-14:1984, Environmental testing – Part 2: Tests - Test N: Change of temperature

IEC 68-2-20:1979, Environmental testing – Part 2: Tests – Test T: Soldering

IEC 68-2-21:1983, Environmental testing – Part 2: Tests - Test U: Robustness of terminations and integral mounting devices

IEC 112: 1979, Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions

IEC 335-2-25: 1993, Safety of household and similar electric appliances - Part 2: Particular requirements for microwave ovens