

Australian Standard 1541, Part 14—1983

**FIXED CAPACITORS FOR USE IN
ELECTRONIC EQUIPMENT**

**Part 14—FIXED CAPACITORS
FOR RADIO
INTERFERENCE
SUPPRESSION**



STANDARDS ASSOCIATION OF AUSTRALIA
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Confederation of Australian Industry
Department of Industry and Commerce
Institution of Radio and Electronics Engineers Australia
Telecom Australia

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AUSTRALIAN STANDARD

**FIXED CAPACITORS FOR USE IN
ELECTRONIC EQUIPMENT**

Part 14

**FIXED CAPACITORS FOR
RADIO INTERFERENCE
SUPPRESSION**

AS 1541, Part 14—1983

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PREFACE

This standard was prepared by the Association's Committee on Capacitors and Resistors. It is technically identical with IEC 384-14 issued by the International Electrotechnical Commission, and acknowledgement is accordingly made to the International Electrotechnical Commission.

Deviations from IEC 384-14 are editorial in nature and were necessary only because IEC 384-14 calls up IEC 384-1:1972 whereas the Australian equivalent, AS 1541, Part 1, is arranged in the manner adopted in IEC 384-1:1982. The references to clause numbers of IEC 384-1 were therefore replaced by the equivalent reference to AS 1541.1, as indicated by the use of a marginal bar alongside the amended text.

Similarly, references to other IEC publications have been replaced wherever possible by the Australian equivalent, as indicated in Clause 3.

The purpose of the standard is to establish standard requirements for the electrical safety of, and standard ratings and characteristics for, radio interference suppression capacitors. Appropriate test methods, test severities and performance requirements are given. Detail specifications for particular types of radio interference suppression capacitors which are based on this standard may contain additional or more severe requirements but should not omit or diminish any relevant severity or requirement.

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FIXED CAPACITORS FOR USE IN ELECTRONIC EQUIPMENT

Part 14 Fixed capacitors for radio interference suppression Selection of methods of test and general requirements

SECTION ONE — GENERAL

1. Scope

This standard applies to fixed capacitors for radio interference suppression intended for apparatus and machines to be connected to a supply with a nominal voltage not exceeding 500 V d.c. or a.c. (r.m.s.) between conductors or 250 V d.c. or a.c. (r.m.s.) between any one conductor and earth and a frequency not exceeding 100 Hz. Capacitors for special environmental conditions (e.g. drip-proof, splash-proof etc.) have to fulfil additional requirements.

Combinations of two or more capacitors within one enclosure are also included in the scope of this standard.

This standard does not necessarily apply in its entirety to capacitor/resistor combinations, or to capacitors intended for use on motor vehicles, in aircraft or for marine applications. Individual recommendations for capacitor/resistor combinations, and capacitors for these other applications will indicate non-applicable clauses and extra requirements.

Note—For certain applications, U or Y capacitors, as described in this specification, may have to fulfil additional requirements as specified in AS 3250, Clause 14.2.

2. Object

The object of this standard is to establish standard requirements for electrical shock hazard protection and to prescribe standard ratings and characteristics and to select from IEC Publication 384-1, the appropriate methods of test and to give general performance requirements for this type of capacitor. Test severities and performance requirements prescribed in detail specifications referring to this sectional specification shall be of equal or higher performance level, because lower performance levels are not permitted.

In addition the minimum requirements for electrical shock hazard protection specified herein always apply.

3. Referenced Standards

AS 1099	Basic Environmental Testing Procedures for Electrotechnology (technically identical to IEC 68)
AS 1541	Fixed Capacitors for Use in Electronic Equipment Part 1—Terminology and Methods of Test (technically identical to IEC 384-1)