



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 60115-9:2004**

ICS 31.040.10

**FIXED RESISTORS FOR USE IN ELECTRONIC  
EQUIPMENT PART 9: SECTIONAL  
SPECIFICATION - FIXED SURFACE MOUNT  
RESISTOR NETWORKS WITH INDIVIDUALLY  
MEASURABLE RESISTORS (IEC 60115-9:2003)**

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EUROPEAN STANDARD

**EN 60115-9**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2004

ICS 31.040.10

English version

**Fixed resistors for use in electronic equipment  
Part 9: Sectional specification -  
Fixed surface mount resistor networks  
with individually measurable resistors  
(IEC 60115-9:2003)**

Résistances fixes utilisées  
dans les équipements électroniques  
Partie 9: Spécification intermédiaire -  
Réseaux de résistances fixes montés  
en surface avec des résistances  
mesurables individuellement  
(CEI 60115-9:2003)

Festwiderstände zur Verwendung  
in Geräten der Elektronik  
Teil 9: Rahmenspezifikation -  
Oberflächenmontierbare Netzwerke  
aus Festwiderständen mit einzeln  
messbaren Widerständen  
(IEC 60115-9:2003)

This European Standard was approved by CENELEC on 2004-02-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 40/1344/FDIS, future edition 1 of IEC 60115-9, prepared by IEC TC 40, Capacitors and resistors for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60115-9 on 2004-02-01.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2004-11-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2007-02-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60115-9:2003 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60063	1963	Preferred number series for resistors and capacitors	-	-
A1	1967		-	-
A2	1977		-	-
IEC 60068-1	- <sup>1)</sup>	Environmental testing Part 1: General and guidance	EN 60068-1	1994 <sup>2)</sup>
IEC 60068-2-1	- <sup>1)</sup>	Part 2: Tests - Tests A: Cold	EN 60068-2-1	1993 <sup>2)</sup>
IEC 60068-2-2	- <sup>1)</sup>	Part 2: Tests - Tests B: Dry heat	EN 60068-2-2	1993 <sup>2)</sup>
IEC 60115-1 (mod)	1999	Fixed resistors for use in electronic equipment Part 1: Generic specification	EN 60115-1	2001

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

# INTERNATIONAL STANDARD

**IEC**  
**60115-9**

First edition  
2003-10

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## **Fixed resistors for use in electronic equipment –**

### **Part 9:**

#### **Sectional specification:**

#### **Fixed surface mount resistor networks with individually measurable resistors**



Reference number  
IEC 60115-9:2003(E)

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