



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 61788-7:2006**

ICS 17.220.050

**SUPERCONDUCTIVITY -- PART 7:  
ELECTRONIC CHARACTERISTIC  
MEASUREMENTS - SURFACE RESISTANCE  
OF SUPERCONDUCTORS AT MICROWAVE  
FREQUENCIES (IEC 61788-7:2006 (EQV))**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61788-7**

December 2006

ICS 17.220; 29.050

Supersedes EN 61788-7:2002

English version

**Superconductivity**  
**Part 7: Electronic characteristic measurements -**  
**Surface resistance of superconductors at microwave frequencies**  
(IEC 61788-7:2006)

Supraconductivité  
Partie 7: Mesures des caractéristiques  
électroniques -  
Résistance de surface des  
supraconducteurs aux hyperfréquences  
(CEI 61788-7:2006)

Supraleitfähigkeit  
Teil 7: Charakteristische elektronische  
Messungen -  
Oberflächenwiderstand von Supraleitern  
bei Frequenzen im Mikrowellenbereich  
(IEC 61788-7:2006)

This European Standard was approved by CENELEC on 2006-11-01. 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, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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 90/193/FDIS, future edition 2 of IEC 61788-7, prepared by IEC TC 90, Superconductivity, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61788-7 on 2006-11-01.

This European Standard supersedes EN 61788-7:2002.

Examples of technical changes made are:

- closed type resonators are recommended from the viewpoint of the stable measurements;
- uniaxial-anisotropic characteristics of sapphire rods are taken into consideration for designing the size of the sapphire rods;
- recommended measurement frequency of 18 GHz and 22 GHz are added to 12 GHz described in EN 61788-7:2002.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the EN has to be implemented<br>at national level by publication of an identical<br>national standard or by endorsement | (dop) | 2007-08-01 |
| – latest date by which the national standards conflicting<br>with the EN have to be withdrawn  | (dow) | 2009-11-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61788-7:2006 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 60050-815	- <sup>1)</sup>	International Electrotechnical Vocabulary (IEV) Part 815: Superconductivity	-	-

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

# INTERNATIONAL STANDARD

**IEC**  
**61788-7**

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## **Superconductivity –**

### **Part 7: Electronic characteristic measurements – Surface resistance of superconductors at microwave frequencies**



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