



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61338-1-4:2006

ICS 31.140

**WAVEGUIDE TYPE DIELECTRIC  
RESONATORS -- PART 1-4: GENERAL  
INFORMATION AND TEST CONDITIONS -  
MEASUREMENT METHOD OF COMPLEX  
RELATIVE PERMITTIVITY FOR DIELECTRIC  
RESONATOR MATERIALS AT  
MILLIMETRE-WAVE FREQUENCY (IEC  
61338-1-4:2005 (EQV))**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61338-1-4**

February 2006

ICS 31.140

Incorporates Corrigendum November 2006

English version

**Waveguide type dielectric resonators  
Part 1-4: General information and test conditions -  
Measurement method of complex relative permittivity  
for dielectric resonator materials at millimetre-wave frequency  
(IEC 61338-1-4:2005)**

Résonateurs diélectriques  
à modes guidés  
Partie 1-4: Informations générales  
et conditions d'essais -  
Méthode de mesure de la permittivité  
relative complexe des matériaux  
des résonateurs diélectriques fonctionnant  
à des fréquences millimétriques  
(CEI 61338-1-4:2005)

Dielektrische Resonatoren  
vom Wellenleitertyp  
Teil 1-4: Allgemeine Informationen  
und Prüfbedingungen -  
Messverfahren für die komplexe relative  
Dielektrizitätskonstante von dielektrischen  
Resonatorwerkstoffen im Mikrowellen-  
Frequenzbereich  
(IEC 61338-1-4:2005)

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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.

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**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 49/748/FDIS, future edition 1 of IEC 61338-1-4, prepared by IEC TC 49, Piezoelectric and dielectric devices for frequency control and selection, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61338-1-4 on 2005-12-01.

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) 2006-09-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2008-12-01

Annex ZA has been added by CENELEC.

The contents of the corrigendum of November 2006 have been included in this copy.

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## Endorsement notice

The text of the International Standard IEC 61338-1-4:2005 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 61338-1-3	- <sup>1)</sup>	Waveguide type dielectric resonators Part 1-3: General information and test conditions - Measurement method of complex relative permittivity for dielectric resonator materials at microwave frequency	EN 61338-1-3	2000 <sup>2)</sup>

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

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



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