

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Measurement of the complex permittivity for low-loss dielectric substrates
balanced-type circular disk resonator method**

**Méthode du résonateur symétrique à disque circulaire pour mesurer la
permittivité complexe des substrats diélectriques à faible perte**

IEC 63185:2025

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CONTENTS

FOREWORD	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Measurement parameters	5
5 Theory and calculation equations	6
6 Measurement system	9
7 Measurement procedure	10
7.1 General	10
7.2 Preparation of measurement apparatus	10
7.3 Adjustment of measurement conditions	10
7.4 Calibration of a vector network analyzer	10
7.5 Measurement of complex permittivity of test sample	10
7.6 Periodic checkup of metal in resonator	11
Annex A (informative) Example of measurement results and associated uncertainties for complex permittivity	12
Bibliography	14
Figure 1 – Structure of a circular disk resonator	7
Figure 2 – Relation between resonant frequency and relative permittivity	8
Figure 3 – Schematic diagram of a vector network analyzer measurement system	9
Figure 4 – Frequency response of $ S_{21} $ of balanced-type circular disk resonator	10
Table A.1 – Parameters of the resonator and the sheet sample	12
Table A.2 – The resonant frequencies and unloaded Q-factors	12
Table A.3 – Measurement results of complex permittivity	13

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MEASUREMENT OF THE COMPLEX PERMITTIVITY
FOR LOW-LOSS DIELECTRIC SUBSTRATES
BALANCED-TYPE CIRCULAR DISK RESONATOR METHOD**

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This second edition cancels and replaces the first edition published in 2020. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the upper limit of the applicable frequency range has been extended from 110 GHz to 170 GHz;
- b) circular disk resonators used for the measurements now include one with waveguide interfaces;