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**Radio-frequency connectors –
Part 1-6: Electrical test methods – RF power**

**Connecteurs pour fréquences radioélectriques –
Partie 1-6: Méthodes d'essai électrique – Puissance RF**



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RADIO-FREQUENCY CONNECTORS –**Part 1-6: Electrical test methods – RF power**

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The text of this International Standard is based on the following documents:

Draft	Report on voting
46F/598/FDIS	46F/612/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 61169 series, published under the general title *Radio-frequency connectors*, can be found on the IEC website.

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RADIO-FREQUENCY CONNECTORS –

Part 1-6: Electrical test methods – RF power

1 Scope

This part of IEC 61169 provides test methods for RF power rating and power handling of RF connectors at specified frequency, temperature and altitude.

This document is applicable to cabled RF connectors, microstrip RF connectors and RF connector adapters. It is also suitable to test RF channels in multi-channel RF connectors and hybrid connectors.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 61169-1, *Radio frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

IEC 61169-1-4, *Radio frequency connectors – Part – 1-4: Electrical test methods – Voltage standing wave ratio, return loss and reflection coefficient*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61169-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
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3.1

power rating

input power at which neither peak working voltage nor maximum dielectric temperature for an RF connector is exceeded, if it is terminated

Note 1 to entry: See Annex A for typical dielectric materials for RF connectors and their maximum withstanding temperatures.

3.2

average power

power that is averaged over the defined frequency range and periods at the specified temperature and altitude and that can be handled by RF connectors