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# TECHNICAL REPORT

**Radio-frequency connectors -**
**Part 1-8: Electrical test methods - Voltage standing wave ratio for a single connector by double connector method**

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# Radio-frequency connectors - Part 1-8: Electrical test methods - Voltage standing wave ratio for a single connector by double connector method

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IEC TR 61169-1-8 has been prepared by subcommittee 46F: RF and microwave passive components, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is a Technical Report.

The text of this Technical Report is based on the following documents:

| Draft | Report on voting |
|---|---|
| 46F/727/DTR | 46F/735/RVDTR |

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 Technical Report 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/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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,
– withdrawn, or
– revised.

## 1 Scope

This part of IEC 61169, which is a Technical Report, provides a test method for voltage standing wave ratio (VSWR, hereinafter) of single RF connector by double-connector method.

This document is applicable to single RF cable connectors and single microstrip RF connectors as well as single adapters if an estimation of the VSWR of a single completely installed RF-connector is used and a time domain feature is not available on the vector network analyzer.

## 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*

# Bibliography

[1] IEC 60068-1, *Environmental testing - Part 1: General and guidance*

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