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**Radio-frequency connectors –
Part 48: Sectional specification for series BMP R.F. coaxial connectors**

**Connecteurs pour fréquences radioélectriques –
Partie 48: Spécification intermédiaire relative aux connecteurs coaxiaux R.F.
série BMP**



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INTERNATIONAL
ELECTROTECHNICAL
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COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

ICS 33.120.30

ISBN 978-2-8322-1902-7

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RADIO-FREQUENCY CONNECTORS –**Part 48: Sectional specification for series
BMP R.F. coaxial connectors**

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The text of this standard is based on the following documents:

CDV	Report on voting
46F/253/CDV	46F/291/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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RADIO-FREQUENCY CONNECTORS –

Part 48: Sectional specification for series BMP R.F. coaxial connectors

1 Scope

This part of IEC 61169, which is a sectional specification (SS), provides information and rules for the preparation of detail specifications (DS) for series BMP RF coaxial connectors with blind mating, typically for use in 50 Ω board to board connection. They may also be used with RF cables or micro-strips in microwave, telecommunication, wireless and other fields. Their operating frequency limit is up to 6 GHz.

It describes the interface dimensions with gauging information, electrical and mechanical performance including the mandatory tests selected from IEC 61169-1:2013 applicable to all DS relating to type BMP connectors.

This specification indicates the recommended performance characteristics to be considered when writing a DS and covers test schedules and inspection requirements.

NOTE Metric dimension are original dimensions.

All undimensioned pictorial configurations are for reference purpose only.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61169-1:2013, *Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

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

IEC 62037 (all parts), *Passive RF and microwave devices, intermodulation level measurement*

3 Mating face and gauge information

3.1 Dimensions – General connectors – Grade 2

3.1.1 Connector with pin-centre contact – Full detent and smooth bore

The mating face of connector with pin-centre contact is shown in Figure 1 and its dimensions are shown in Table 1.