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Powertec Wireless Technology  
ABN: 42 082 948 463  
PO Box 1034, Ashmore City  
Queensland, Australia, 4214  
sales@powertec.com.au  
1300 769 378

## **RF Adapter RP-SMA Male to SMA Female**

SKU  
ACC-PT-00321  
MPN  
AD-RSA2SA1  
Barcode  
9337692003585

## Description

The RF Adapter RP-SMA Male to SMA Female (AD-RSA1SA2) by Powertec is a high-quality 50  $\Omega$  coaxial adapter. It features an RP-SMA Male connection compatible with RP-SMA Female interfaces and an SMA Female connection compatible with SMA Male interfaces. Both connections have a straight body shape and are designed for free-hanging mounting.

This adapter operates within a frequency range of 0 GHz to 6 GHz and is constructed from brass with a gold finish. The inner contacts are made of phosphor-bronze, also gold-plated for enhanced conductivity. It functions reliably in extreme temperatures, from -65 °C to 165 °C, and complies with ISO 9001 Quality Management and RoHS standards.

Ideal for use in wireless technology applications, this adapter is manufactured by Powertec, a reputable Australian company established in 1995, known for its expertise in cellular network enhancement and wireless network development. Powertec supports over 1500...

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## Powertec

Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

## RF Connector Interface

### RF Interface Body Shape Mounting

[RP-SMA Male](#) [Straight](#) [Free Hanging](#)

[SMA Female](#) [Straight](#) [Free Hanging](#)

## RF Specification

Start Frequency

0 GHz

Stop Frequency

6 GHz

RF Operating Voltage

$\geq 500$  Vrms

Input Impedance

50  $\Omega$

Inner Contact Resistance

$\leq 1$  m $\Omega$

Insulation Resistance

$\geq 5000$  m $\Omega$

Outer Contact Resistance

$\leq 1 \text{ m}\Omega$

VSWR Measurement

**Frequency VSWR**

6000 MHz  $\leq 1.25:1$

## Physical Specification

Body Material

[Brass](#)

Body Plating

[Gold](#)

Insulator Material

[PTFE / Teflon](#)

Dimensions

15.9 x 8

Weight

5 g

Compliance/Certifications

[ISO 9001 Quality Management](#)

,

[RoHS](#)

Contact Material

[Phosphor Bronze](#)

Contact Plating

[Gold](#)

Min. Operating Temperature

-65 °C

Max. Operating Temperature

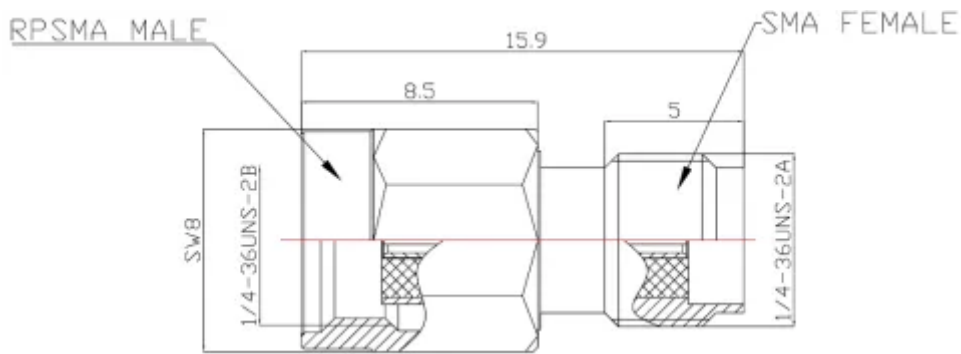
165 °C

Mating Cycles

> 500

Drawing

Image



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