

Powertec RF Adapter, SMA Female to RP-SMA Female

SKU: ACC-BH-00070
 MPN: AD-SA2RPSA2
 Barcode: 9337692004742

Description

The RF Adapter SMA Female to RP-SMA Female (Part Number: AD-SA2RSA2) by Powertec is a high-quality 50 Ω coaxial adapter designed for versatile RF connectivity. It features an SMA Female interface compatible with SMA Male connectors and an RP-SMA Female interface compatible with RP-SMA Male connectors. Both interfaces have a straight body shape and a free-hanging mounting mechanism, allowing flexible integration into various systems.

This adapter operates within a frequency range of 0 GHz to 6 GHz, making it suitable for a wide array of RF applications. Constructed from brass with a gold finish, it ensures durability and optimal signal transmission. The inner contacts are made of beryllium copper with gold plating, enhancing conductivity and reliability.


Engineered to withstand extreme conditions, the adapter functions effectively between -65 °C and 165 °C. It meets ISO 9001 Quality Management standards and is RoHS compliant, guaranteeing...

[Read More](#)

RF Connector Interface



| RF Interface | Body Shape | Mounting |
|---------------|------------|--------------|
| SMA Female | Straight | Free Hanging |
| RP-SMA Female | Straight | Free Hanging |



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 Specification

| | | | |
|-----------------------|-------------------------|---------------------------|-----------------------------|
| Start Frequency: | 0 GHz | Input Impedance: | 50 |
| Stop Frequency: | 6 GHz | Inner Contact Resistance: | $\leq 1 \text{ m}\Omega$ |
| RF Operating Voltage: | $\geq 500 \text{ Vrms}$ | Insulation Resistance: | $\geq 5000 \text{ m}\Omega$ |
| | | Outer Contact Resistance: | $\leq 1 \text{ m}\Omega$ |

VSWR Measurement

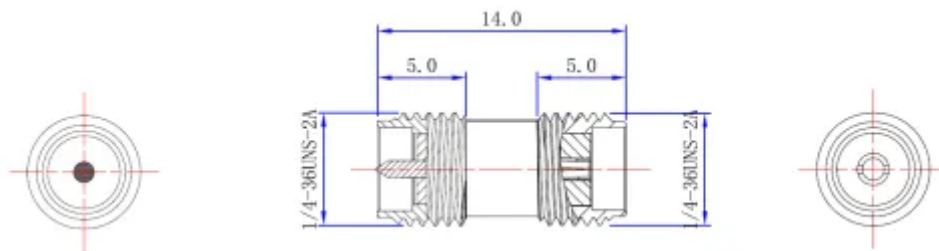
| Frequency | VSWR |
|-----------|---------------|
| 6000 MHz | $\leq 1.25:1$ |

Physical Specification

| | | | |
|----------------------------|-----------------------------|-----------------------------|-----------------|
| Body Material: | Brass | Contact Material: | Phosphor Bronze |
| Body Plating: | Gold | Contact Plating: | Gold |
| Insulator Material: | PTFE / Teflon | Min. Operating Temperature: | -65 °C |
| Dimensions: | 14 x 7 mm (L x Dia) | Max. Operating Temperature: | 165 °C |
| Weight: | 3.5 g | Mating Cycles: | > 500 |
| Compliance/Certifications: | ISO 9001 Quality Management | | |

RoHS

Drawing



Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

