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Powertec Wireless Technology  
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## **RF Adapter, SMA Female to TNC Male**

SKU  
ACC-PT-00089  
MPN  
AD-SA2TN1  
Barcode  
9337692000850

## Description

The RF Adapter SMA Female to TNC Male (Part Number: AD-SA2TN1) is a 50  $\Omega$  coaxial adapter from Powertec, an Australian manufacturer. This adapter features an SMA Female connection compatible with SMA Male interfaces and a TNC Male connection compatible with TNC Female interfaces. Both connections are straight and free-hanging. It operates within a frequency range of 0 GHz to 6 GHz and is constructed from Brass with a Gold finish, while the inner contacts are Phosphor Bronze with Gold plating.

Designed for robustness, this adapter performs reliably in temperatures ranging from -65 °C to 165 °C. It meets ISO 9001 Quality Management standards and complies with RoHS regulations, ensuring high quality and environmental safety.

Ideal for a variety of RF applications, the Powertec AD-SA2TN1 adapter supports seamless connectivity and enhanced signal integrity for professional and industrial use.





## 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**

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

[TNC Male](#)   [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

26.5 x 15 mm

Compliance/Certifications

[ISO 9001 Quality Management](#)

,

[RoHS](#)

Contact Material

[Phosphor Bronze](#)

Contact Plating

[Gold](#)

Min. Operating Temperature

-55 °C

Max. Operating Temperature

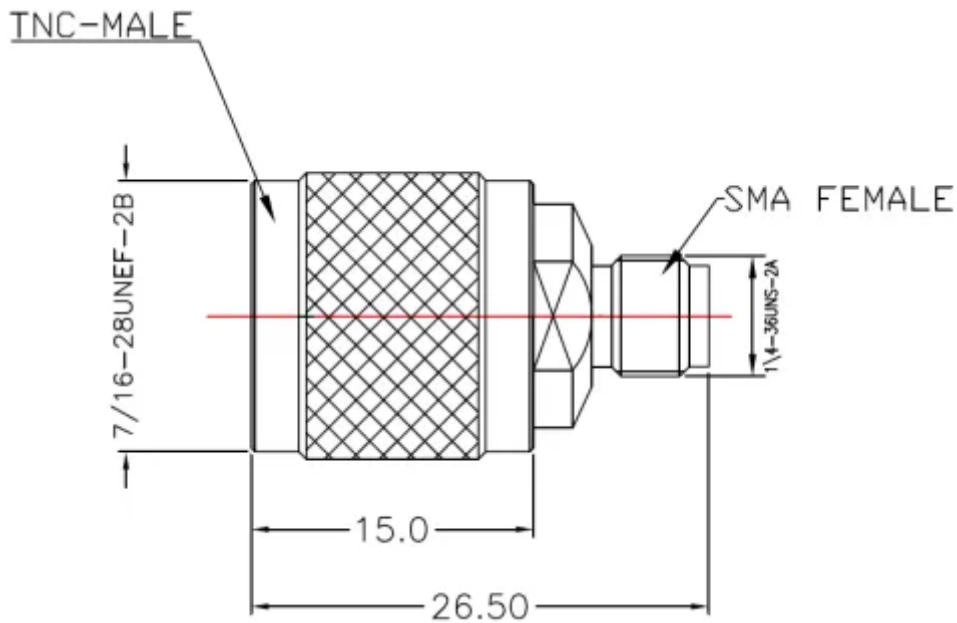
155 °C

Mating Cycles

> 500

Drawing

Image



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