

RF Adapter, SMA Male to TNC Female

SKU: ACC-PT-00091

MPN: AD-SA1TN2

Barcode: 9337692002953

Description

The RF Adapter SMA Male to TNC Female (Part Number: AD-SA1TN2) by Powertec is a 50 Ω coaxial adapter designed for high-frequency applications. It features a SMA Male to TNC Female interface, both with straight body shapes and free-hanging mounting mechanisms, compatible with their respective connectors.

This adapter supports an operating frequency range from 0 GHz to 6 GHz, making it suitable for a wide variety of RF applications. Constructed from Brass with a Gold finish and inner contacts made of Phosphor Bronze with Gold plating, it ensures high durability and reliable performance. It operates efficiently in extreme temperatures ranging from -65 °C to 165 °C.

Manufactured to ISO 9001 Quality Management standards and compliant with RoHS, this adapter guarantees high quality and environmental safety.

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RF Connector Interface

RF Interface	Body Shape	Mounting
SMA Male	Straight	Free Hanging
TNC Female	Straight	Free Hanging

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

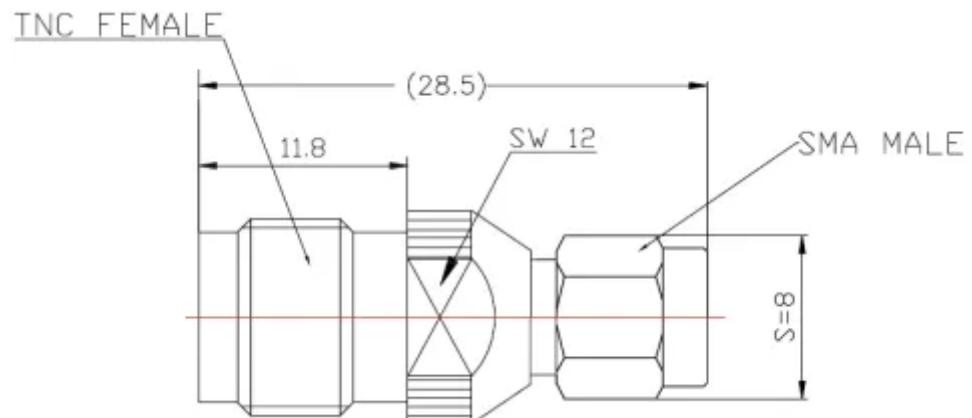
VSWR Measurement

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:	28.5 x 12 mm (L x Dia)	Max. Operating Temperature:	165 °C
Compliance/Certifications:	ISO 9001 Quality Management	Mating Cycles:	> 500
RoHS			

Drawing



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