

# RF Adapter, N Female to N Female

SKU: ACC-PT-00048

MPN: AD-N2N2

## Description

The Powertec RF Adapter (SKU: ACC-PT-00048, Part No: AD-N2N2) is a high-quality N Female to N Female adapter, ideal for a variety of RF applications. Constructed from durable brass with nickel plating, this adapter features inner contacts made of phosphor bronze with gold plating, ensuring superior conductivity and reliability. It uses a PTFE/Teflon insulator and is designed for over 500 mating cycles, offering exceptional durability.

Operating efficiently across a broad frequency range from 0 GHz to 6 GHz, the adapter maintains an impedance of  $50\ \Omega$  and supports an RF operating voltage of  $\geq 500\text{ Vrms}$ . It demonstrates minimal contact resistance, with inner contact at  $\leq 3\text{ m}\Omega$  and outer contact at  $\leq 2\text{ m}\Omega$ , ensuring optimal signal integrity. The adapter can withstand extreme temperatures, ranging from  $-65\text{ }^{\circ}\text{C}$  to  $165\text{ }^{\circ}\text{C}$ .

Tested to meet rigorous MIL-STD-202 standards, the adapter is resilient to thermal shock, corrosion, vibration, shock, and...

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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
N Female	Straight	Free Hanging
N Female	Straight	Free Hanging

## RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	6 GHz	Inner Contact Resistance:	≤ 3 mΩ
RF Operating Voltage:	≥ 500 Vrms	Outer Contact Resistance:	≤ 2 mΩ

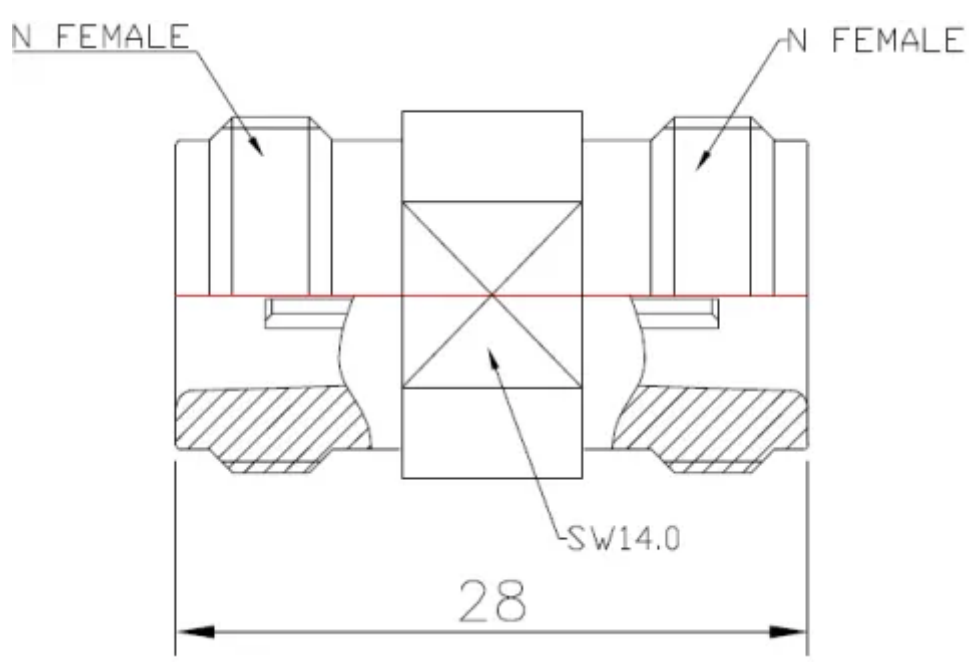
### VSWR Measurement

Frequency	VSWR
6000 MHz	≤ 1.25:1

## Physical Specification

Body Material:	Brass	Contact Material:	Phosphor Bronze
Body Plating:	Nickel	Contact Plating:	Gold
Insulator Material:	PTFE / Teflon	Min. Operating Temperature:	-65 °C
Dimensions:	28	Max. Operating Temperature:	165 °C
		Mating Cycles:	> 500
		Mechanical Compliance:	MIL-STD-202: Thermal Shock
			,
		MIL-STD-202: Corrosion	
		,	
		MIL-STD-202: Vibration	
		,	
		MIL-STD-202: Shock	
		,	
		MIL-STD-202: Moisture Resistance	

# Drawing



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