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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 Ω and supports an RF operating voltage of ≥ 500 Vrms. It demonstrates minimal contact resistance, with inner contact at ≤ 3 mΩ and outer contact at ≤ 2 mΩ, ensuring optimal signal integrity. The adapter can withstand extreme temperatures, ranging from -65 °C to 165 °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 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

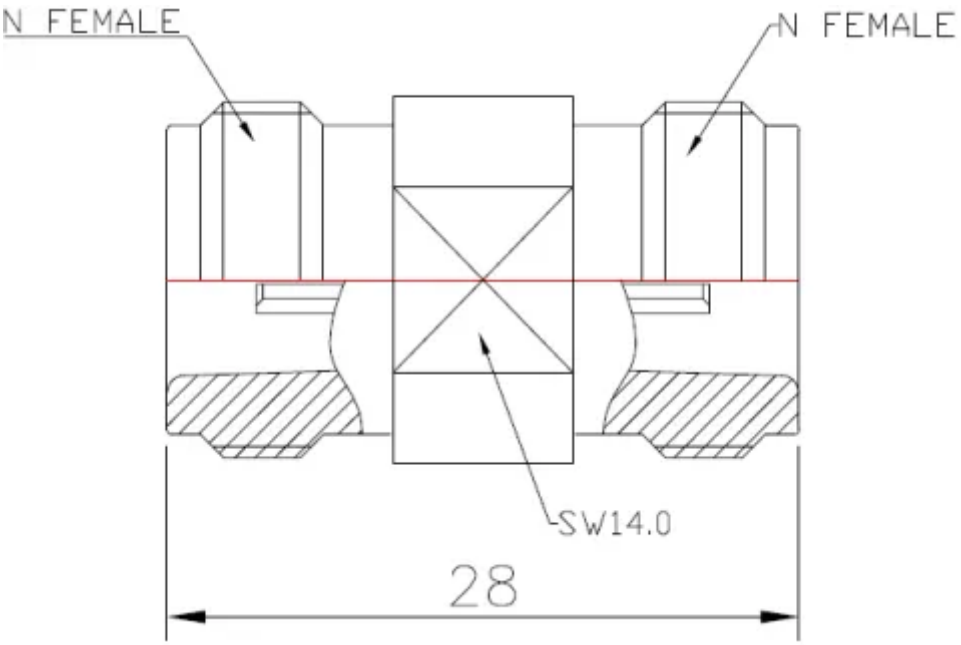
Start Frequency
0 GHz
Stop Frequency
6 GHz
RF Operating Voltage
≥ 500 Vrms
Input Impedance
50 Ω
Inner Contact Resistance
≤ 3 mΩ
Outer Contact Resistance
≤ 2 mΩ
VSWR Measurement

Frequency	VSWR

6000 MHz	≤ 1.25:1

Physical Specification

Body Material
Brass
Body Plating
Nickel
Insulator Material
PTFE / Teflon
Dimensions
28
Contact Material
Phosphor Bronze
Contact Plating
Gold
Min. Operating Temperature
-65 °C
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
Image



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