

RF Adapter, 4.3-10 Male to N Male, -155dBc PIM

SKU: IBC-PT-00018

MPN: AD-432N1

Barcode: 9337692001727

Description

The RF Adapter 4.3-10 Male to N Male (Part Number: AD-431N1) by Powertec is a high-quality 50 Ω coaxial adapter. This adapter features a 4.3-10 Male interface and an N Male interface, both with straight body shapes and free-hanging mounting mechanisms, ensuring compatibility with 4.3-10 Female and N Female interfaces, respectively.

Operating within a frequency range of 0 GHz to 6 GHz, the adapter is constructed from Brass with a Nickel finish, with inner contacts made of Brass plated with Phosphor Bronze. It is designed to withstand temperatures from -40 °C to 85 °C. This adapter meets ISO 9001 Quality Management standards and is RoHS compliant, ensuring high quality and environmental safety. Additionally, it boasts a PIM rating of ≤ -155 dBc, highlighting its excellent performance in minimizing passive intermodulation.

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RF Connector Interface

| RF Interface | Body Shape | Mounting |
|--------------|------------|--------------|
| 4.3-10 Male | Straight | Free Hanging |
| N Male | Straight | Free Hanging |

RF Specification

| | | | |
|-----------------------|------------|---------------------------|-----------|
| Start Frequency: | 0 GHz | Input Impedance: | 50 |
| Stop Frequency: | 6 GHz | Inner Contact Resistance: | ≤ 1 mΩ |
| RF Operating Voltage: | ≥ 500 Vrms | Insulation Resistance: | ≥ 5000 mΩ |
| PIM, 3rd Order: | ≤ -155 dBc | Outer Contact Resistance: | ≤ 1 mΩ |

VSWR Measurement

| Frequency | VSWR |
|-----------|---------|
| 6000 MHz | ≤ 1.5:1 |

Physical Specification

| | | | |
|----------------------------|-----------------------------|-----------------------------|-----------------|
| Body Material: | Brass | Contact Material: | Brass |
| Body Plating: | Nickel | Contact Plating: | Phosphor Bronze |
| Insulator Material: | PTFE / Teflon | Min. Operating Temperature: | -40 °C |
| Compliance/Certifications: | ISO 9001 Quality Management | Max. Operating Temperature: | 85 °C |
| RoHS | | Mating Cycles: | > 500 |

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