antenova

DATASHEET

ADNS051

RF Adapter

1. Features

RF Adaptor to convert between N Female to SMA Female Bulkhead Adaptor.
Durable connectors with >500 connect/disconnect cycles
Low insertion loss

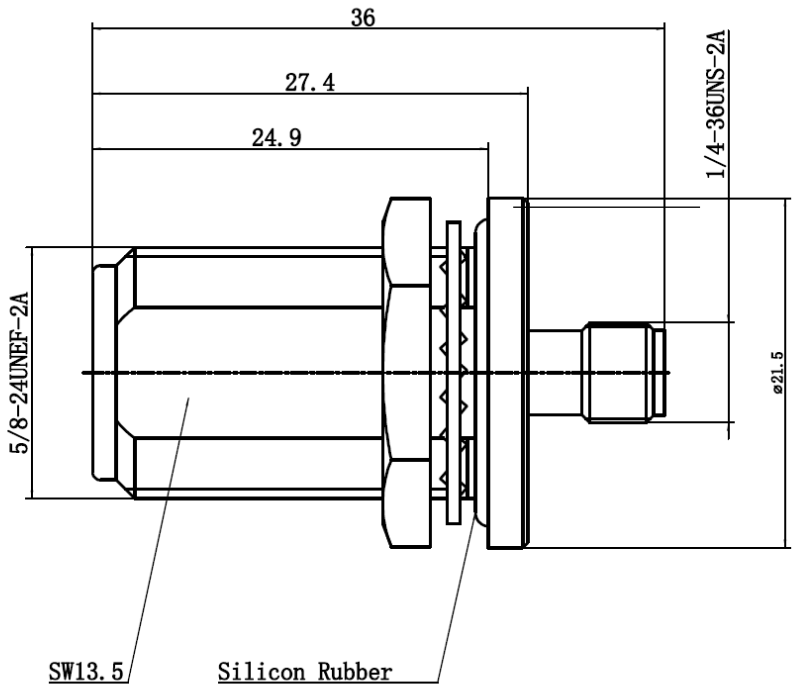
2. General data

Electrical	
Impedance	50Ω
Frequency Range	DC ~ 18GHz
Dielectric Withstanding Voltage	1000V
VSWR	≦1.20
Durability	>500 cycles
Mechanical	
Connector Dimensions	36mm * Ø21.5mm
Connector 1 Type	N Female
Connector 2 Type	SMA Female
Salt Spray	MIL-STD-202, Method 101, Cycle repeated 96hrs
Environmental	
Hazardous Material Regulation	RoHS compliant
Operating Temperature	-45°c to +125°c

3. Part Number

Part Number – ADNS051

4. Drawing



No	Description	Material	Finish	QTY
1	Body	Stainless Steel	Passivated	1
2	Insulator	Teflon &Pei	-	1
3	Center conductor	Beryllium-Copper	Gold Plated	1
4	Gasket	Silicone Rubber	-	1

5. Hazardous Material Regulation Conformance

The connector has been tested to conform to RoHS requirements.
A certification of conformance is available from Antenova's website.

Quality statements

Datasheet version
Antenova's products conform to REACH and RoHS legislation. For our statements regarding these and other quality standards, please see antenova.com.
Antenova reserves all rights to the contents of this document. Antenova gives no warranties based solely on the accuracy or completeness of the contents of this document and reserves the right to make changes to the specifications of the products described herein at any time and without notice.

Datasheet version

1.01 release 11th July 2025

Antenna design, integration and test resources

Product designers – the details contained in this datasheet will help you to complete your embedded antenna design. Please follow our technical advice carefully to obtain optimum antenna performance.
We aim to support our customers to create high performance wireless products. You will find a wealth of design resources, calculators and case studies to aid your design on our website.
Antenova's design laboratories are equipped with the latest antenna design tools and test chambers. We provide antenna design, test and technical integration services to help you complete your design and obtain the required certifications.
If you cannot find the antenna you require in our product range, please contact us to discuss creating a custom antenna to meet your exact requirements.

Share knowledge with RF Experts around the world

ask.antenova is a global forum for designers and engineers working with wireless technology

Visit Ask.Antenova

Visit antenova.com

Order antenna samples and evaluation boards, and read our antenna resources

Visit antenova.com

Request a volume quotation for antennas:

sales@antenova.com

+ 44 (0) 23 9400 1023

Global headquarters

Antenova Ltd, 7 The Briars,
Waterberry Drive, Waterlooville,
Hampshire, PO7 7YH

Copyright® Antenova Ltd. All Rights Reserved. Antenova®, gigaNOVA®, GNSSNOA®, the Antenova product family names and the Antenova logos are trademarks and/or registered trademarks of Antenova Ltd. Any other names and/or trademarks belong to their respective companies. The materials provided herein are believed to be reliable and correct at the time of printing. Antenova does not warrant the accuracy or completeness of the information, text, graphics or other items contained within this information. Antenova further assumes no responsibility for the use of this information, and all such information shall be entirely at the user's risk.