NANP35X7AUS0R915G1F

ISM / LoRa PCB Antenna

ROHS/REACH COMPLIANT HALOGEN FREE

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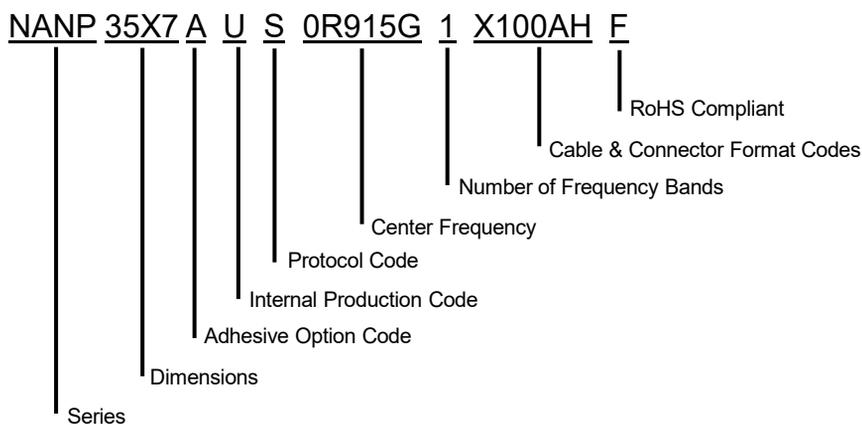**NIC Components Corp.**

Description

The NANP35X7AUS0R915G1F is a rigid PCB antenna designed for ism / LoRa applications. It operates within the frequency ranges of 902 ~ 928 MHz making it perfect for use in Wireless alarm and security systems, Industrial monitoring and control, IOT applications and Smart Meters.

Features

- Dual Band Frequency
- Customizable cable type and cable length
- Rigid PCB Type
- RoHS compliant

Part Number Breakdown

NANP 35X7 A U S 0R915G 1 X100AH F

- RoHS Compliant
- Cable & Connector Format Codes
- Number of Frequency Bands
- Center Frequency
- Protocol Code
- Internal Production Code
- Adhesive Option Code
- Dimensions
- Series

Standard Part Number Listing

Part Number	Connector	Cable Length	Cable Type	Cable Orientation
NANP35X7AUS0R915G1X100AHF	IPEX MHF	100 mm	RF1.13	Horizontal

The table represents assembled part numbers available on www.niccomp.com from standard connector and cable options. For options not listed above please contact NIC"

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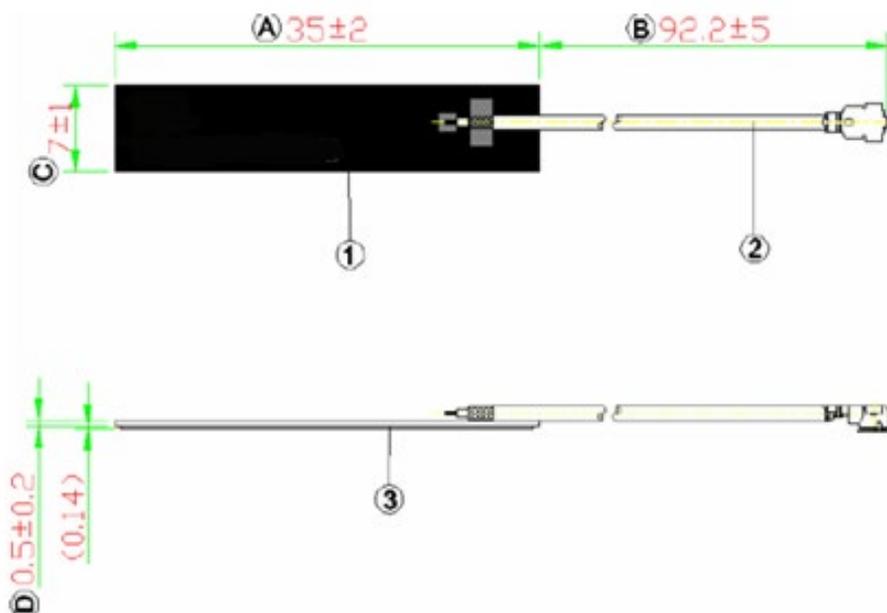
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Specifications

Frequency Ranges	902 ~ 928 MHz
Center Frequency	915 MHz
Gain	2 dBi
V.S.W.R	2.0 max.
Efficiency	67.5%
Polarization	Linear
Impedance	50Ω
Operating Temperature Range	-40°C ~ 85°C
Storage Temperature	-5°C ~ 40°C
Relative Humidity	10 ~ 70%
Mounting Method	Adhesive
RoHS Complaint	Yes

Dimensions

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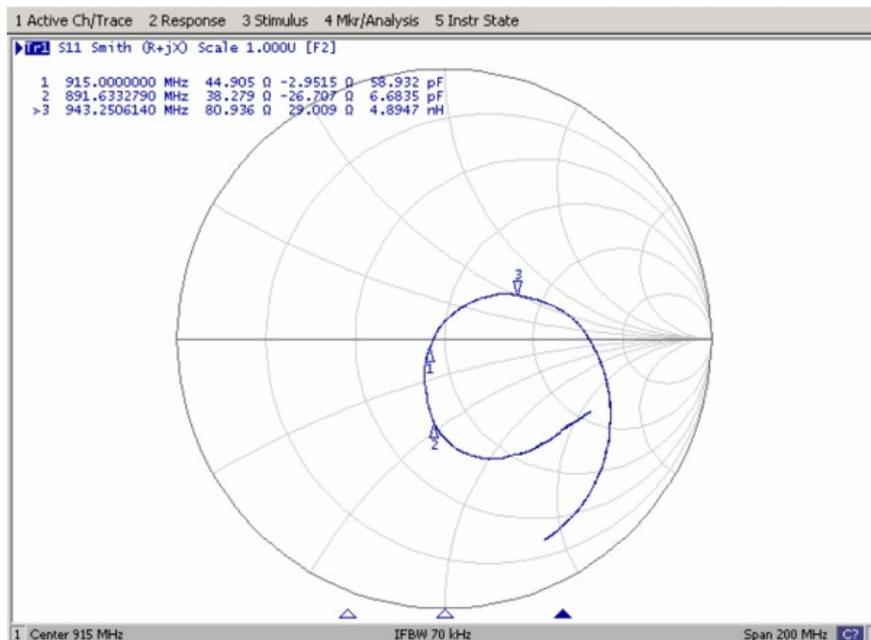Last Updated 2/17/2026. Specification subject to change without notice. Please check web site or contact NIC for latest information

Return Loss and Smith Chart

Return Loss

1 Active Ch/Trace   2 Response   3 Stimulus   4 Mkr/Analysis   5 Instr State

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]

1	915.0000000 MHz	-24.150 dB
2	891.6332790 MHz	-10.000 dB
>3	943.2506140 MHz	-10.000 dB

1 Center 915 MHz   IFBW 70 kHz   Span 200 MHz

Smith Chart

1 Active Ch/Trace   2 Response   3 Stimulus   4 Mkr/Analysis   5 Instr State

Tr1 S11 Smith (R+jX) Scale 1.000U [F2]

1	915.0000000 MHz	44.905 Ω	-2.9515 Ω	58.932 pF
2	891.6332790 MHz	38.279 Ω	-26.707 Ω	6.6835 pF
>3	943.2506140 MHz	80.936 Ω	29.009 Ω	4.8947 nH

1 Center 915 MHz   IFBW 70 kHz   Span 200 MHz

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Radiation Patterns

3D Gain Patterns @ 915 MHz

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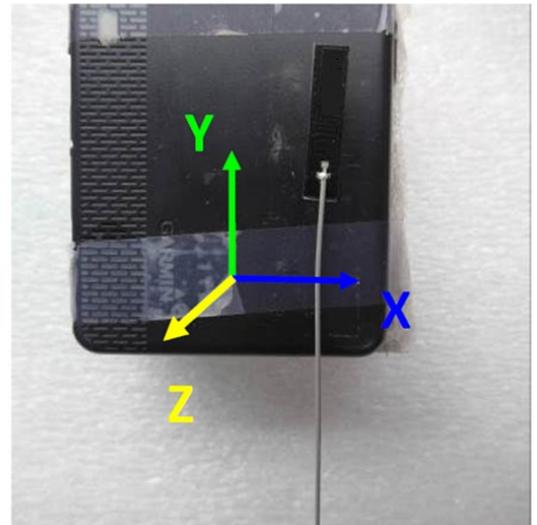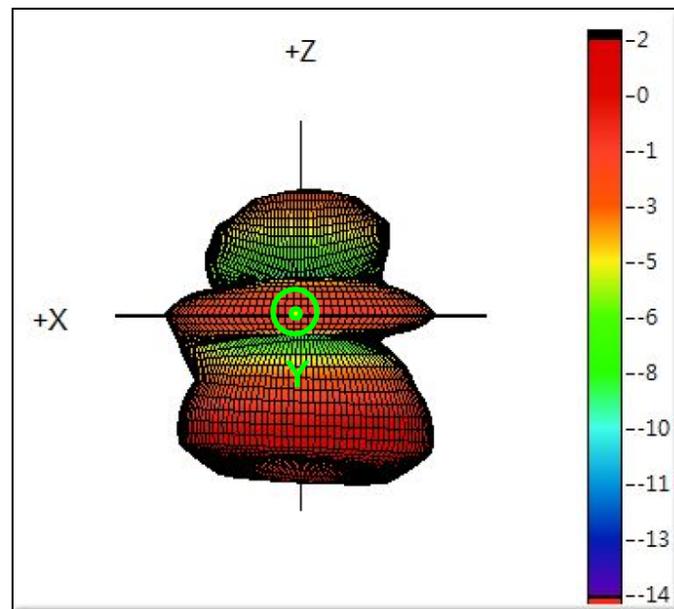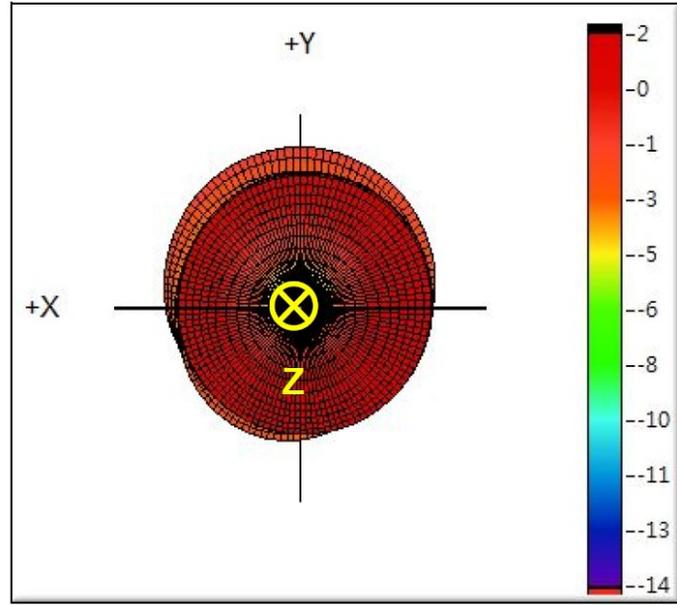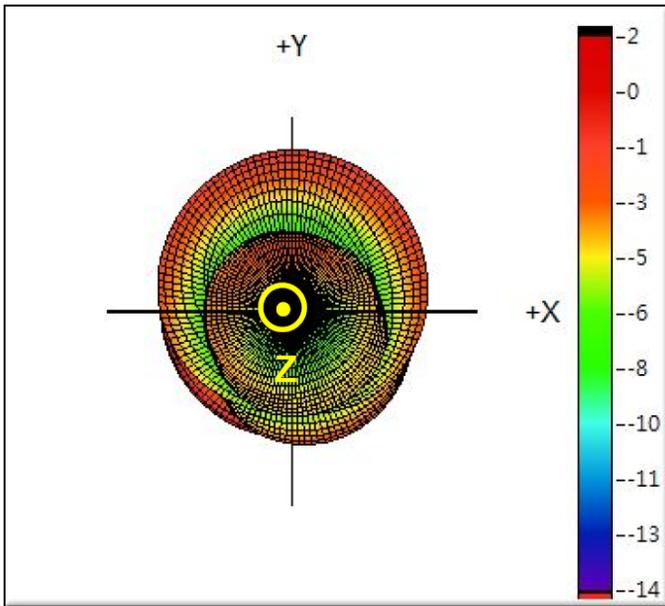
Efficiency Table

Frequency(MHz)	902	904	906	908	910	912	914	915	916	918	920	922	924	926	928
Efficiency(dB)	-1.8	-1.7	-1.7	-1.6	-1.6	-1.7	-1.7	-1.7	-1.7	-1.8	-1.9	-1.8	-1.8	-1.9	-1.9
Efficiency (%)	66.7	67.2	67.8	69.1	69.4	67.7	67.4	67.5	67.8	66.4	65.2	66.6	65.7	64.2	64.5
Peak Gain (dBi)	1.9	1.9	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.0	2.1

Efficiency Vs. Frequency

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