

NANF35X7AUS0R915G1F

915 MHz ISM FPC Antenna



Applications

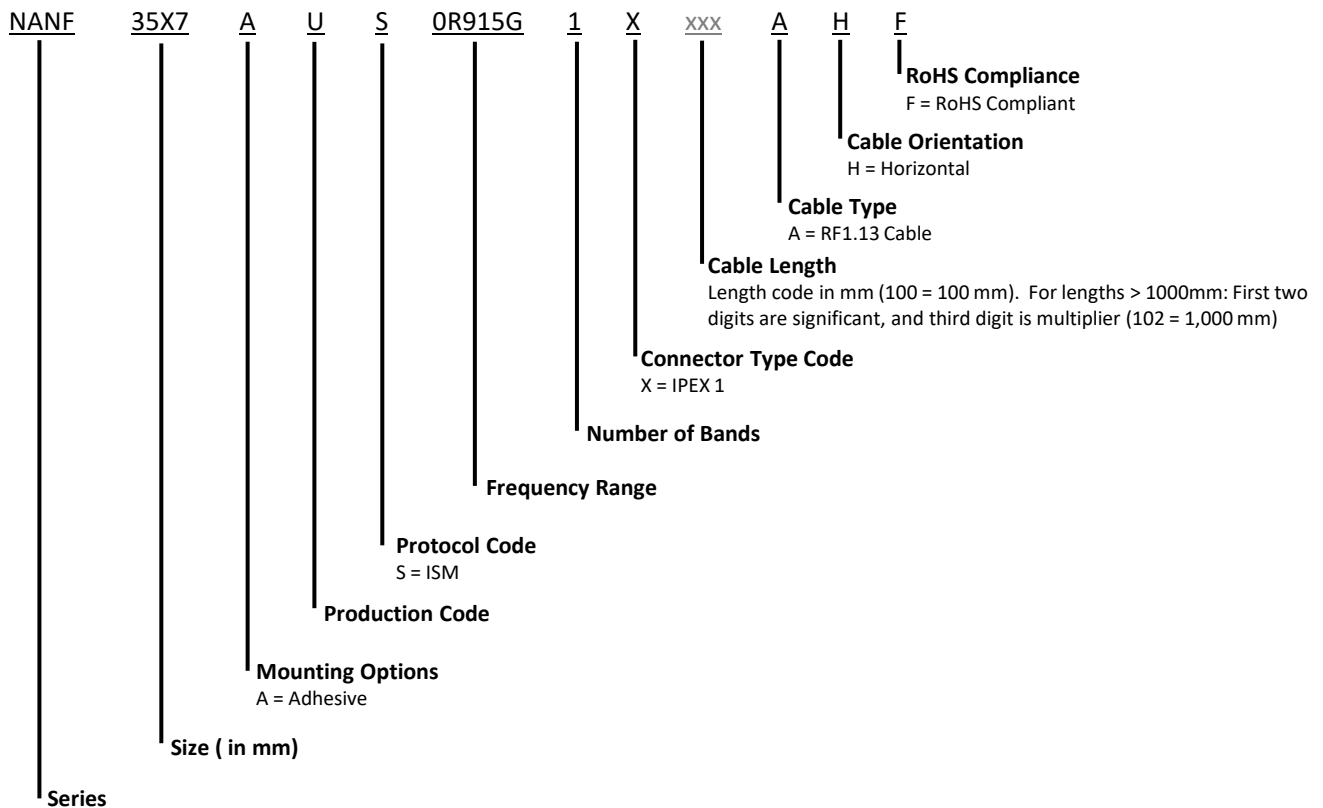
NANF35X7AUS0R915G1F is the base part number of a Flexible PCB Antenna designed for ISM applications. It operates within the frequency ranges of 902 ~ 928 MHz making it perfect for use in Smart Meters, Wireless alarm and security system, Industrial monitoring and control, IOT applications



Features

- Support ISM/LoRa & Sigfox Bands, 915 MHz
- Stable and Reliable Performance
- Customizable Cable and Connector
- RoHS & REACH Compliant

Part Number Breakdown



Standard Part Numbers

Part Numbers	Connector Type	Cable Length	Cable Type
NANF35X7AUS0R915G1X100AHF	IPEX I (X)	100 mm	RF1.13 (A)
NANF35X7AUS0R915G1X50AHF	IPEX I (X)	50 mm	RF1.13 (A)

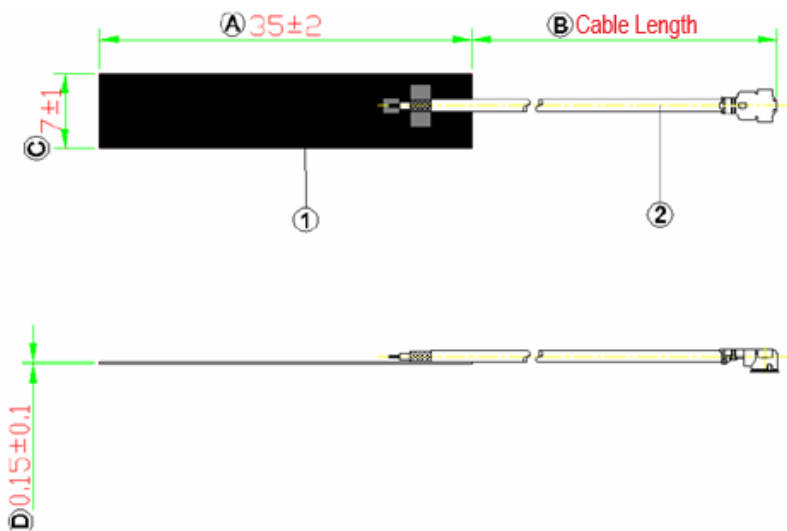
The table represents assembled part numbers available on www.niccomp.com from standard connector and cable options. For options not listed above please contact NIC"

Performance Passives By Design

Specifications

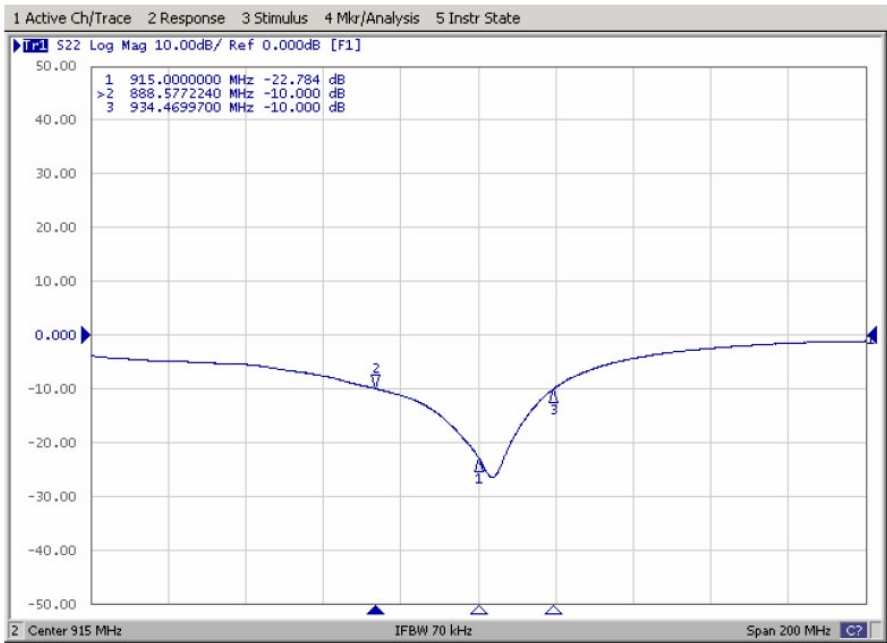
Electrical	
Frequency Range	902 ~ 928 MHz
Frequency	915 MHz
Peak Gain (typ.)	2.3 dBi
Average Gain (typ.)	-1.8 dB
V.S.W.R	2.0 Max.
Efficiency (typ.)	65.9%
Polarization	Linear
Impedance	50Ω
Mounting Method	Adhesive
Environmental	
Operating Temperature	-40°C~+85°C
Storage Temperature	-5°C~+40°C
Relative Humidity	10 ~ 70%
RoHS Complaint	Yes

Dimensions

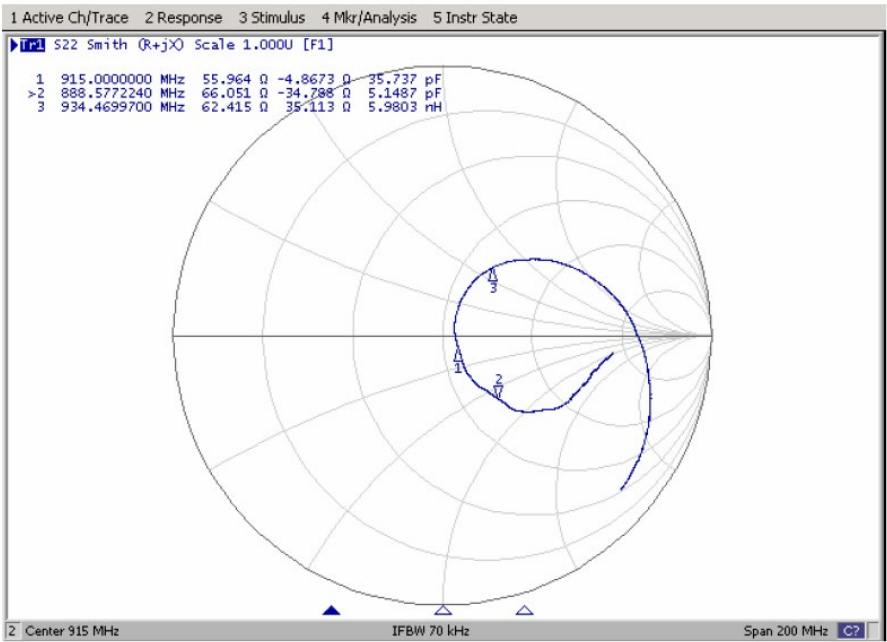


Antenna Parameters

Return Loss

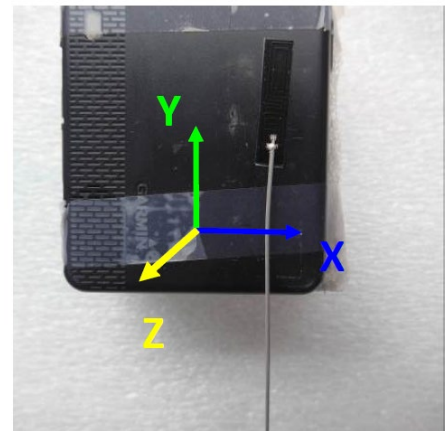
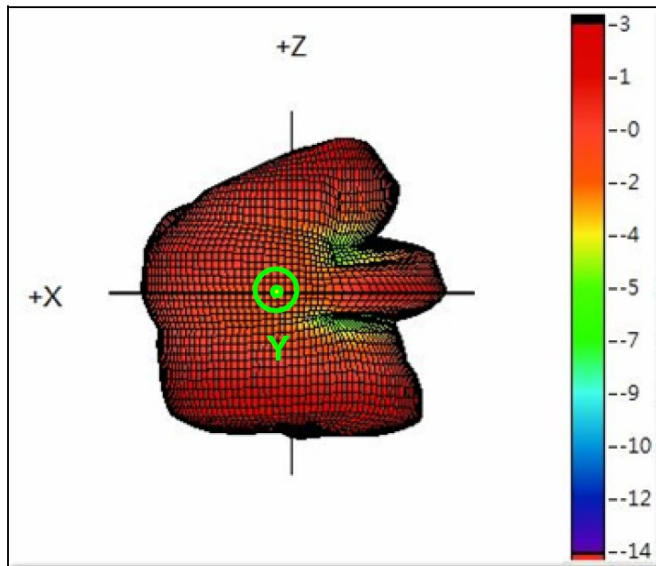
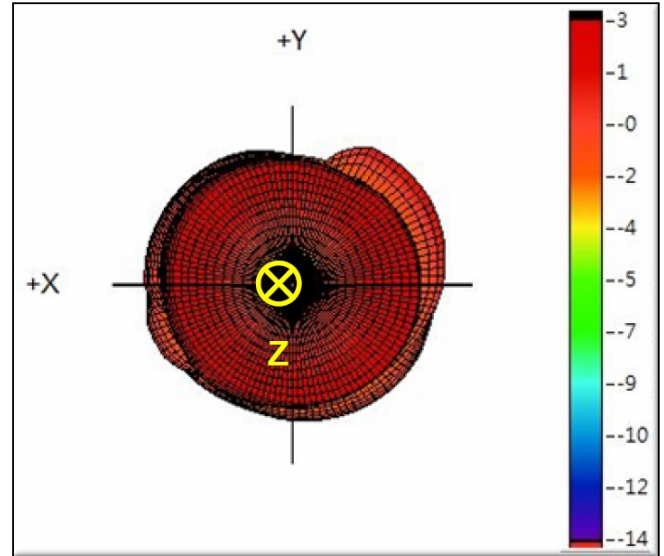
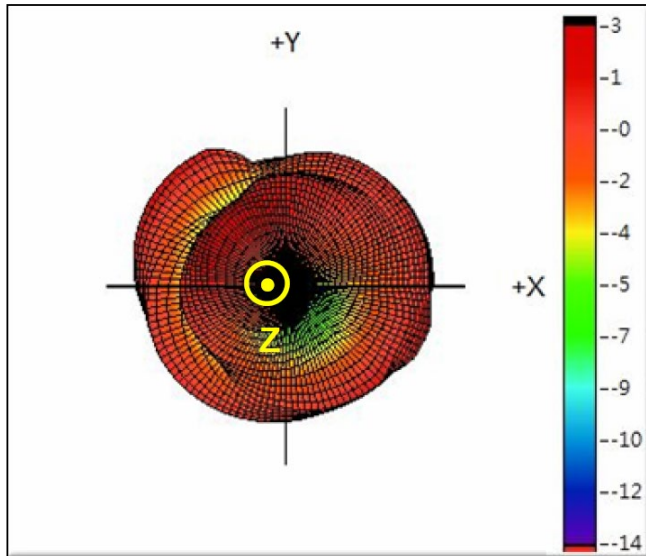


Smith Chart



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)	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.7	-1.8	-1.7	-1.6	-1.5	-1.5
Efficiency (%)	64.0	64.7	65.2	65.6	66.7	66.5	65.6	65.9	66.4	67.0	66.5	67.3	69.0	70.2	71.0
Peak Gain (dBi)	2.0	2.1	2.2	2.3	2.2	2.3	2.2	2.3	2.3	2.4	2.4	2.3	2.4	2.5	2.6

Efficiency vs. Frequency

