

NANF35X7AUS0R868G1F

868 MHz ISM FPC Antenna



Features

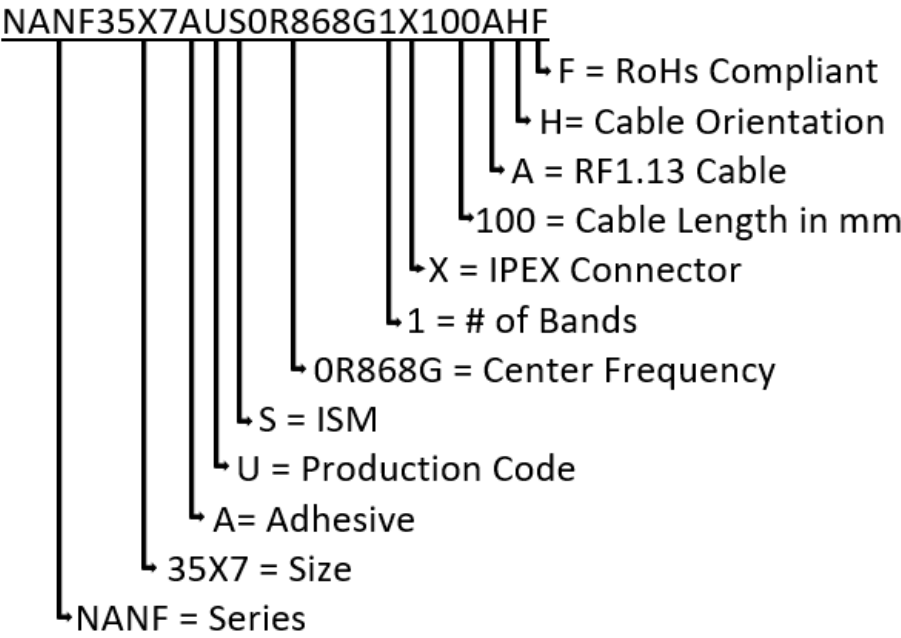
- Support ISM/LoRa & Sigfox Bands, 868 MHz
- Stable and Reliable Performance
- Customizable Cable and Connector
- RoHS & REACH Compliant



Applications

- ISM 868 Band
- Smart Meters
- Wireless alarm and security system
- Industrial monitoring and control
- IOT applications

Part Number Breakdown



Standard Part Number Breakdown

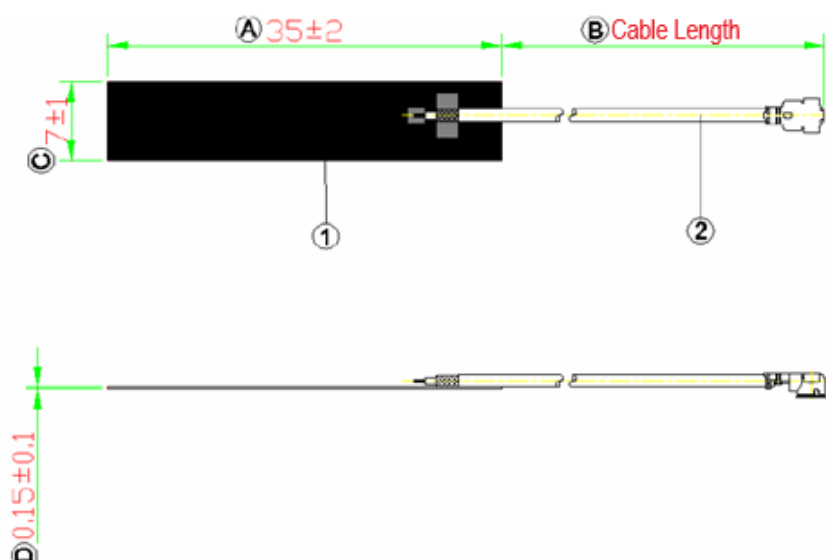
Part Numbers	Connector Type	Cable Length	Cable Type	Cable Orientation
NANF35X7AUS0R868G1X100AHF	IPEX MHF (X)	100 mm	RF1.13 (A)	Horizontal

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”

Specifications

Electrical	
Frequency Range	863 ~ 870 MHz
Frequency	868 MHz
Peak Gain (typ.)	1.9 dBi
V.S.W.R	2.0 Max.
Efficiency (typ.)	61.1%
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



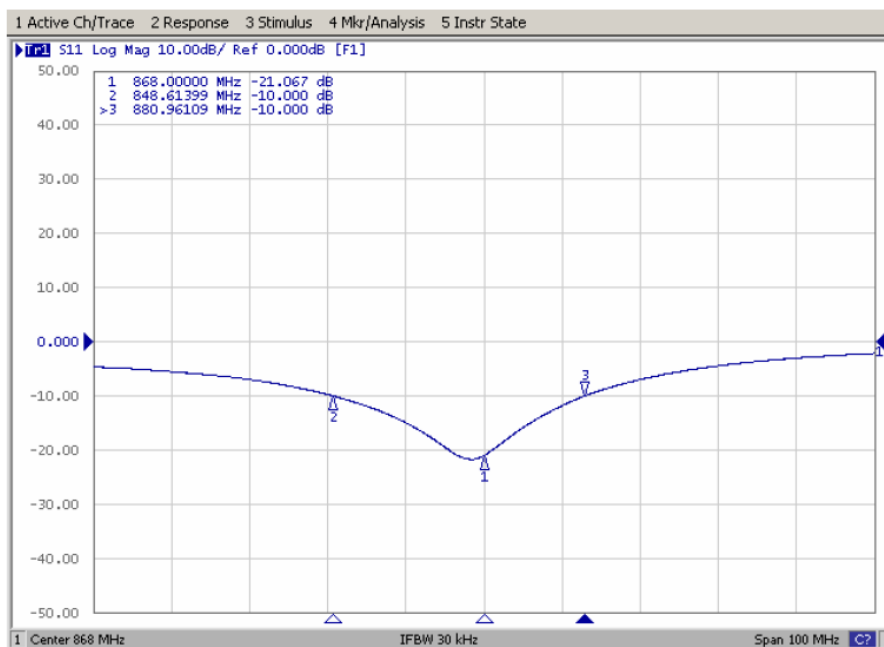
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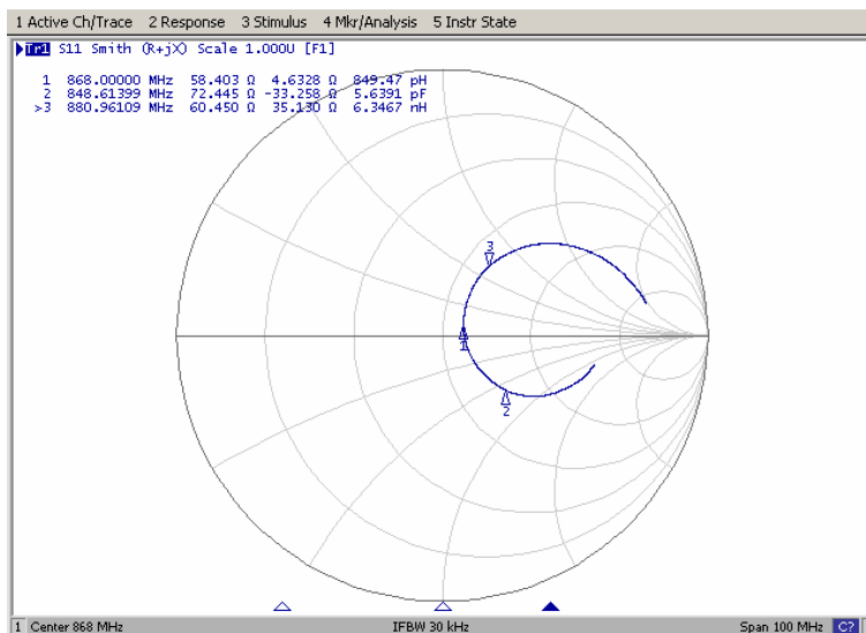


Antenna Parameters:

Return Loss

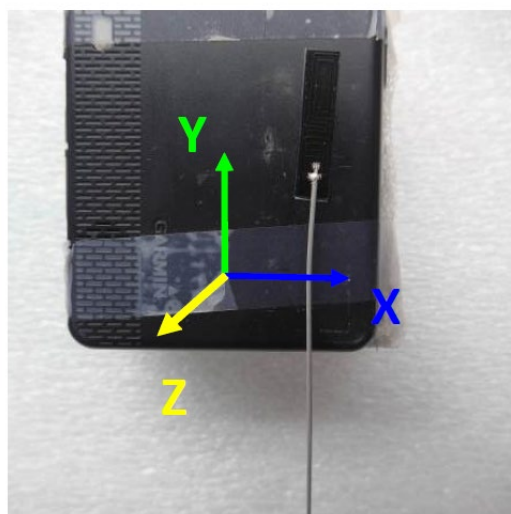
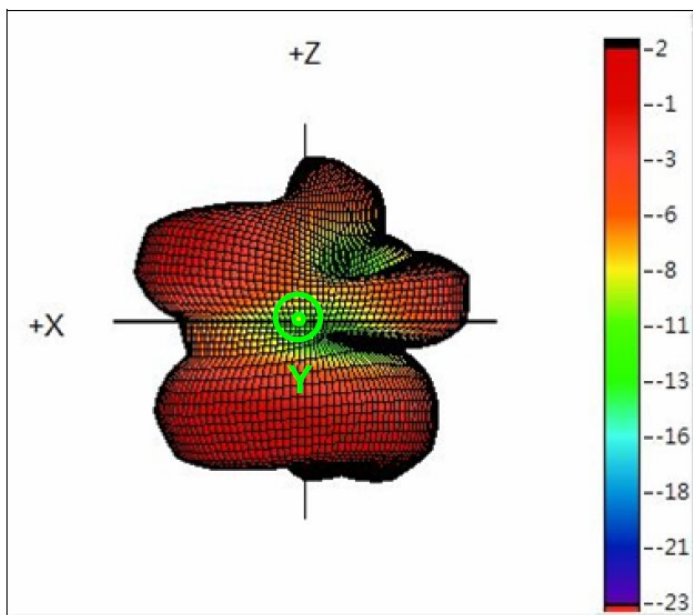
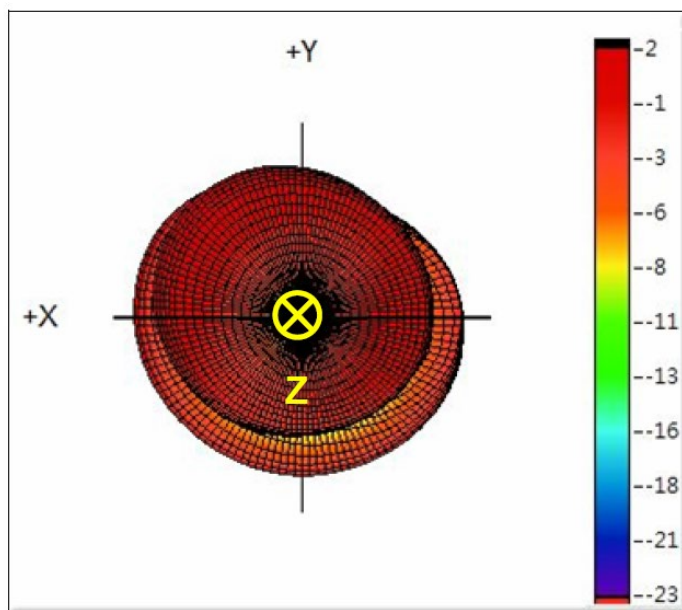
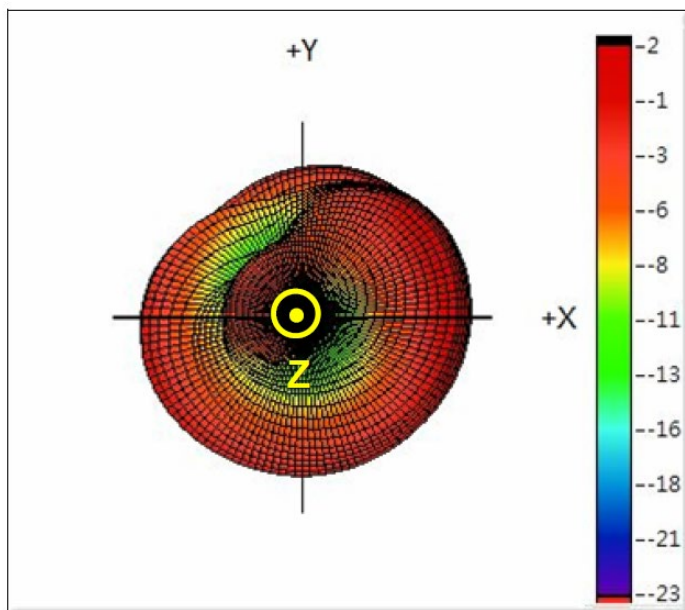


Smith Chart



Radiation Patterns

3D Gain Patterns @ 915 MHz



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Efficiency Table

Frequency(MHz)	863	864	865	866	867	868	869	870	871	872	873
Efficiency(dB)	-2.0	-2.1	-2.2	-2.2	-2.2	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0
Efficiency (%)	62.8	61.4	60.9	60.1	60.1	61.1	61.9	63.1	63.4	63.1	62.7
Peak Gain (dBi)	2.1	2.0	1.9	1.8	1.8	1.9	1.9	2.0	2.0	2.0	1.9

Efficiency vs. Frequency

