

NANP62X7AUS0R433G1F

433 Mhz ISM PCB Antenna



Description

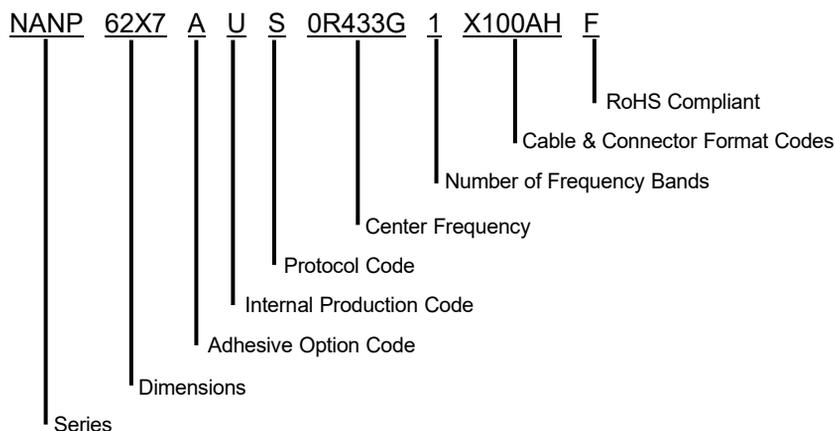
The NANP62X7AUS0R433G1F is a Rigid PCB antenna designed for ISM applications. It operates within the frequency ranges of 433 MHz, making it perfect for use in Smart Meters, Wireless alarm and security System, Industrial Monitoring and control and IoT applications.



Features

- 433 MHz ISM Protocol
- Customizable cable type and cable length
- Rigid PCB Type
- Compact Size
- RoHS compliant

Part Number Breakdown



Standard Part Number Listing

| Part Number | Connector | Cable Length | Cable Type | Cable Orientation |
|---------------------------|-----------|--------------|------------|-------------------|
| NANP62X7AUS0R433G1X100AHF | 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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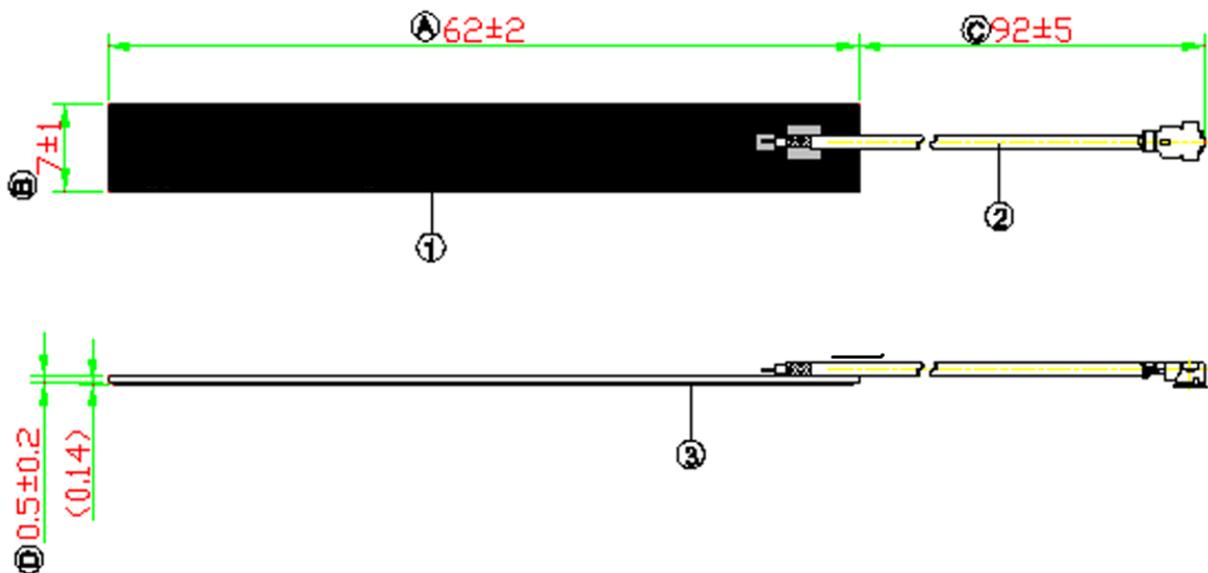
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Specifications

| | |
|-----------------------------|---------------------|
| Frequency Ranges | 433.05 ~ 434.79 MHz |
| Center Frequency | 433 MHz |
| Peak Gain | -0.9 dBi |
| Efficiency | 35.1 |
| V.S.W.R | 2.0 Max. |
| Polarization | Linear |
| Impedance | 50Ω |
| Operating Temperature Range | -40°C ~ 85°C |
| Mounting Method | Adhesive |
| RoHS Compliant | Yes |

Dimensions

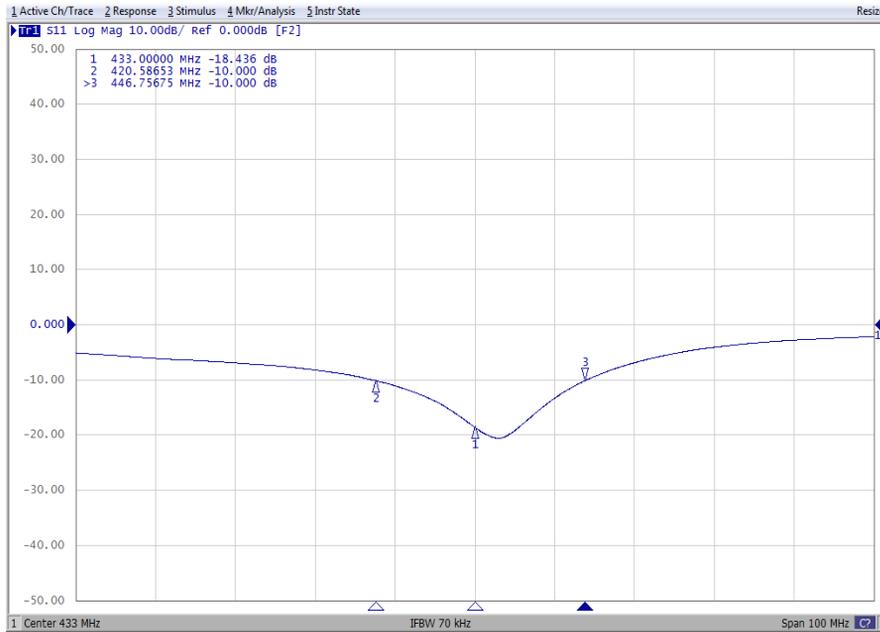


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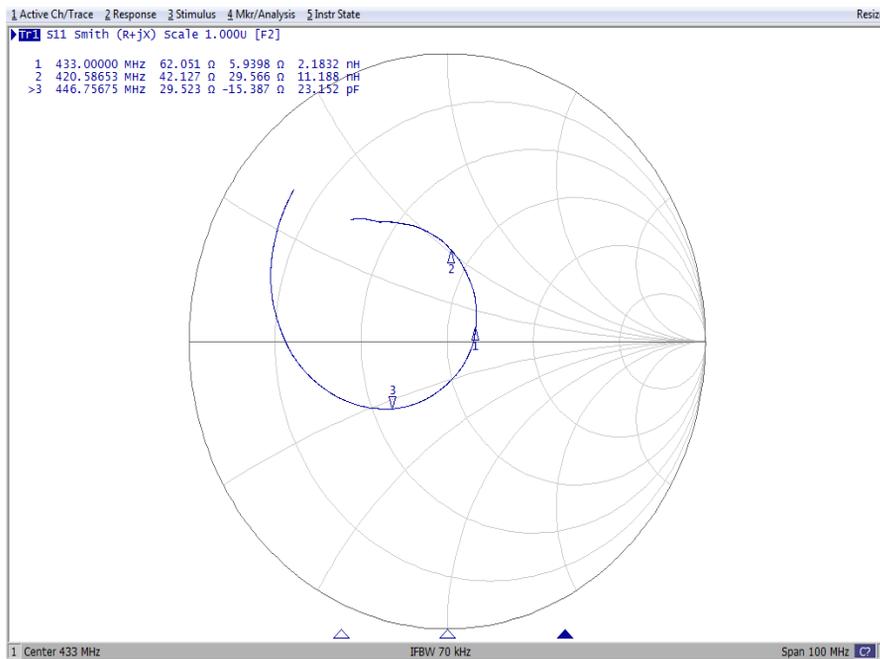
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Return Loss



Radiation Patterns



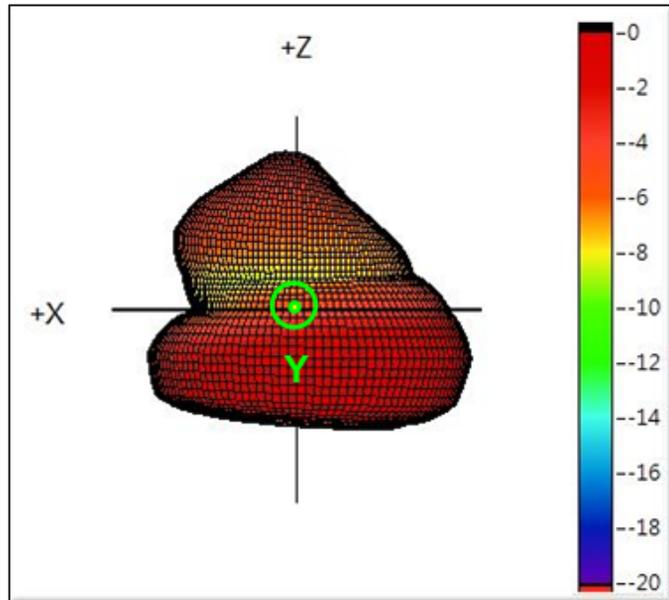
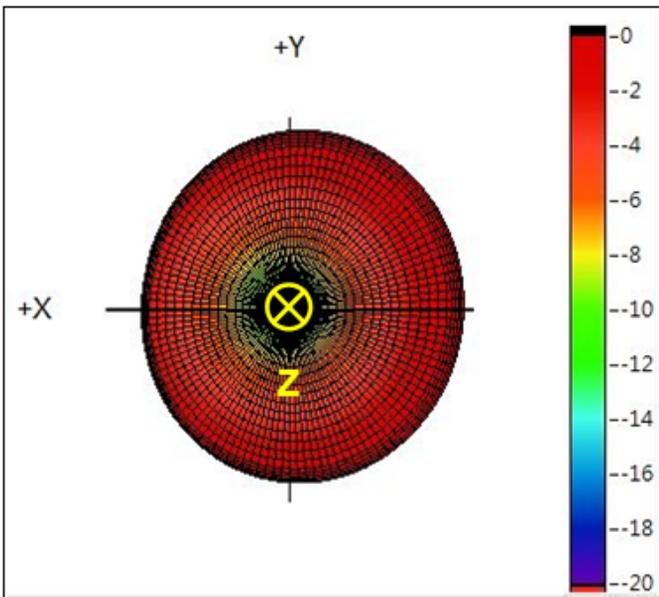
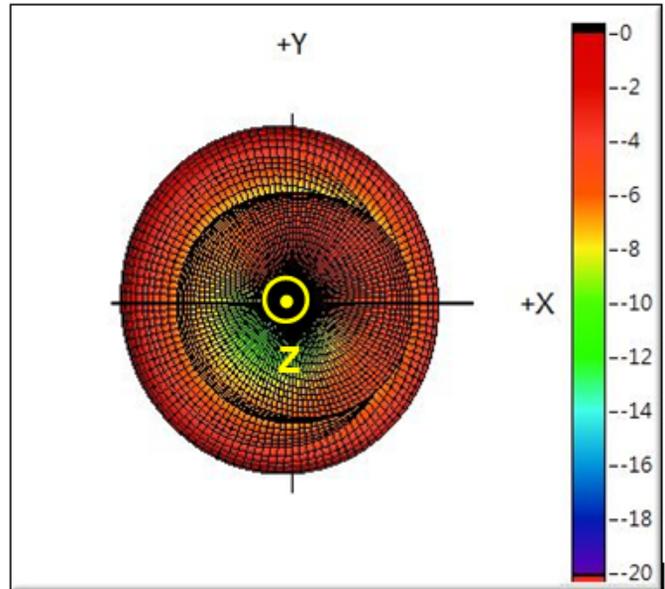
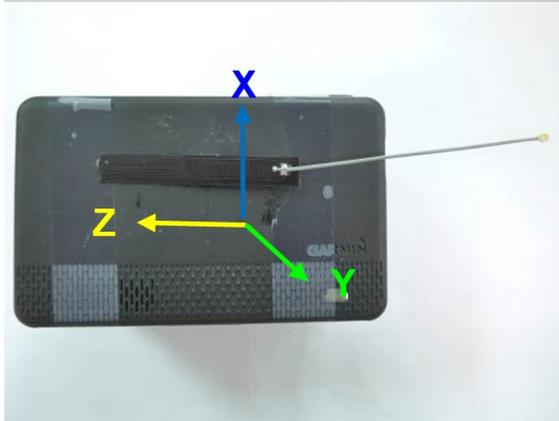
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Radiation Patterns

3D Gain Pattern @ 433 MHz



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Efficiency Table

| Frequency(MHz) | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|
| Efficiency(dB) | -4.6 | -4.4 | -4.3 | -4.4 | -4.5 | -4.6 | -4.5 | -4.4 | -4.4 | -4.6 | -4.8 |
| Efficiency(%) | 35.0 | 36.7 | 37.4 | 36.6 | 35.6 | 35.1 | 35.7 | 36.5 | 36.3 | 34.9 | 33.1 |
| Peak Gain(dBi) | -0.9 | -0.7 | -0.6 | -0.7 | -0.8 | -0.9 | -0.9 | -0.8 | -0.8 | -1.0 | -1.2 |

Efficiency vs. Frequency

