



# Neuspera PN001840 Antenna Datasheet

## Specifications

Specifications	Value
Antenna Type	Printed Circuit Board Antenna
Nominal Impedance	50 Ohms
Frequency Range	902-912MHz
Connector Type	Direct Solder to Secondary PCB
S(1,1) @ midband 907MHz	-28.17 dB (VSWR = 1.08)

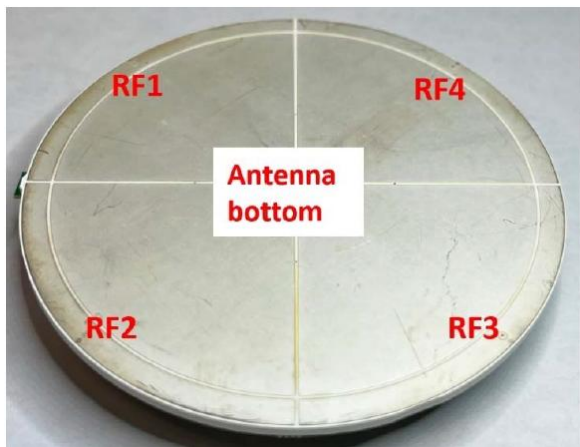
## Antenna Description

The WT antenna is a Neuspera proprietary design PCB consisting of a 4 element stripline-fed patch array, PN 001840, with 4 equal sectors designed for operation at 902-912 MHz, within the 915MHz ISM band. The outer layer opposite the array elements layer is solid ground. Each element has connection points for a capacitive tuning element to be connected from the secondary PCB.

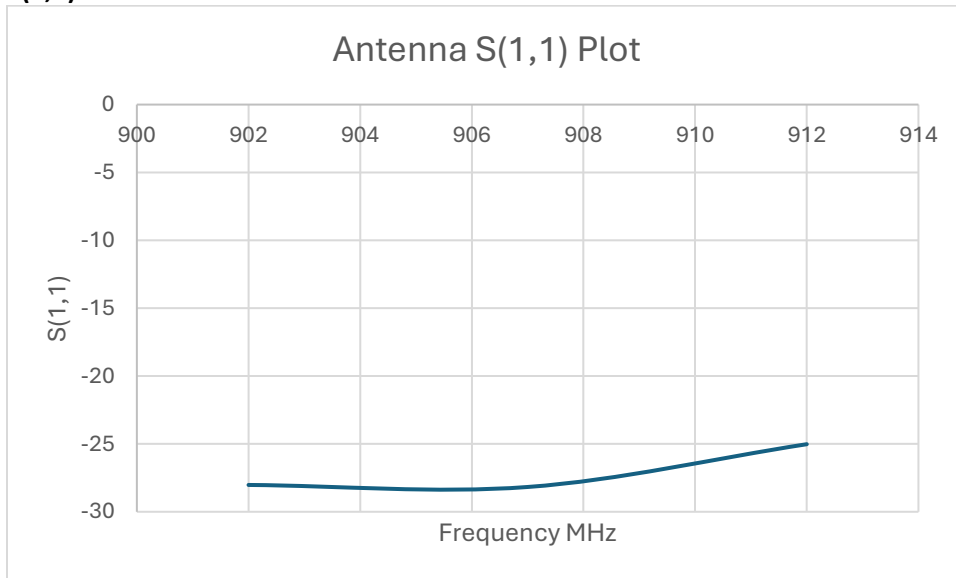
## Physical Dimensions

001840: 80mm x 80mm x 2.1mm (width x length x thickness).

## Picture



**S(1,1) Plot**

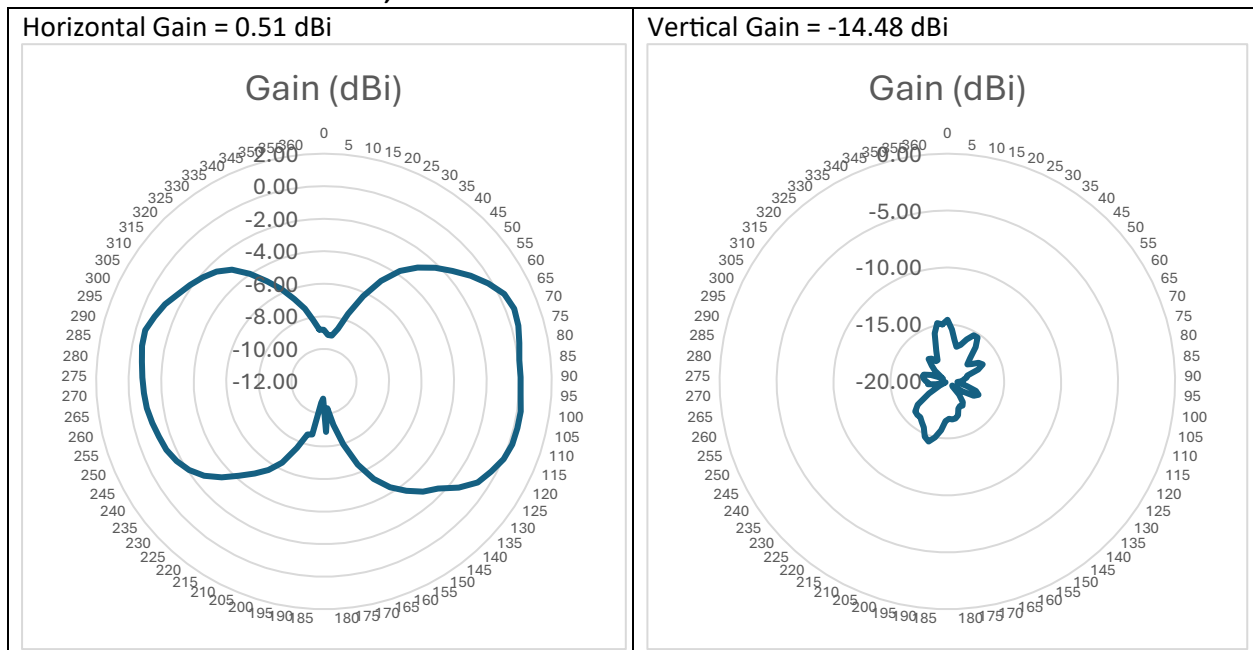


Data Point 1: 902 MHz : -28.02 dB

Data Point 2: 907 MHz : -28.17 dB

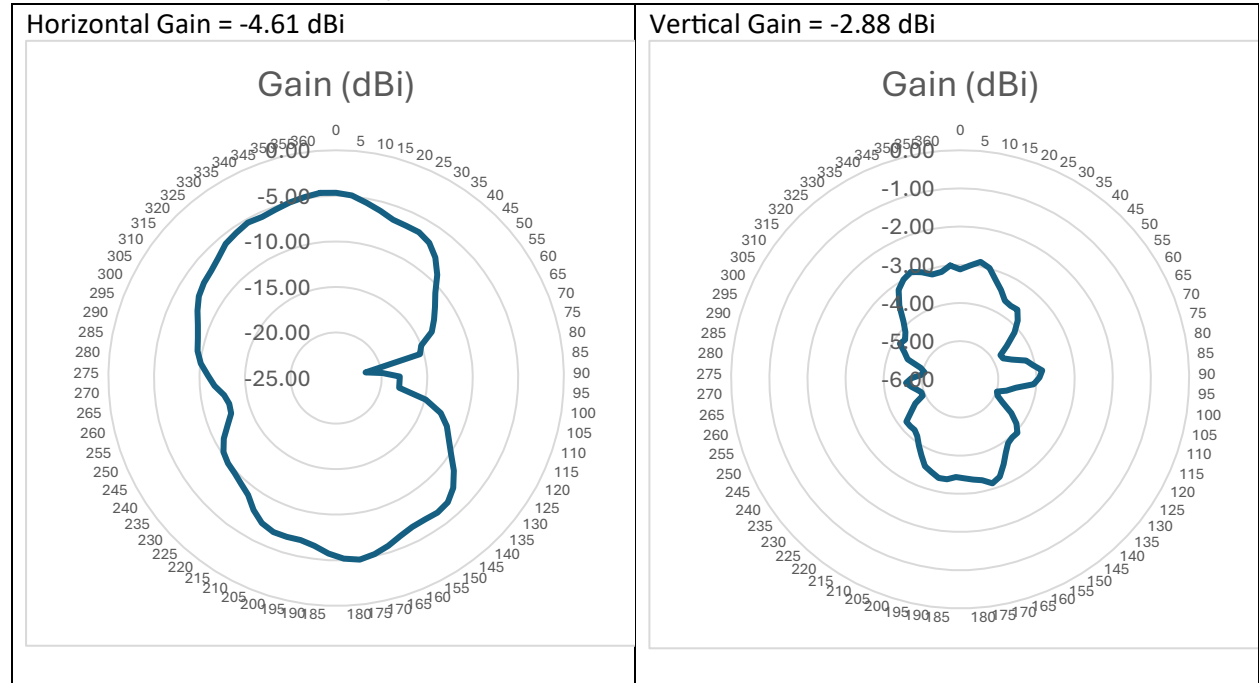
Data Point 3: 912 MHz : -25.02 dB

**Antenna Horizontal X-Y Polar Plots, 907MHz**

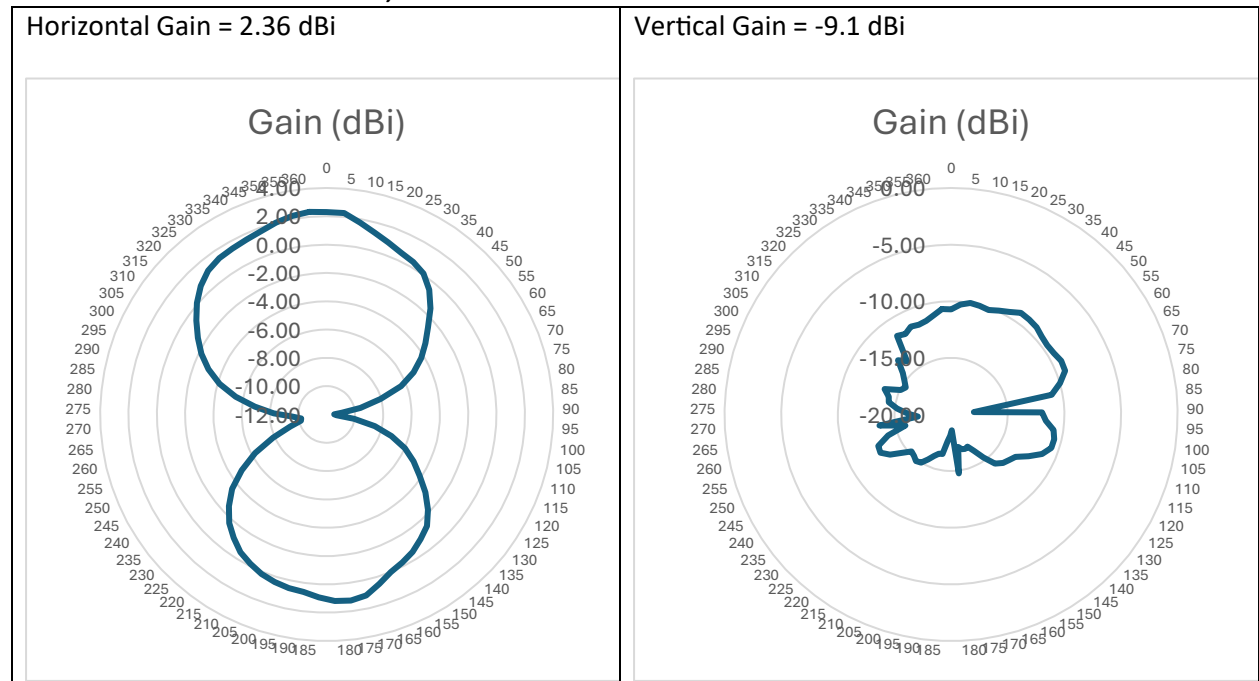




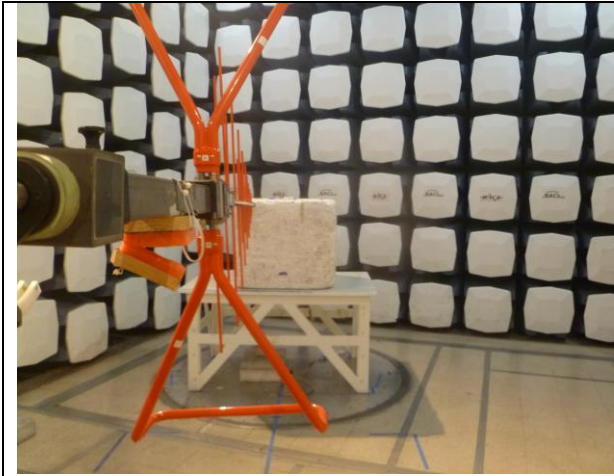
**Antenna Horizontal X-Z Polar Plots, 907MHz**



**Antenna Horizontal Y-Z Polar Plots, 907MHz**



Test Setup EUT Images



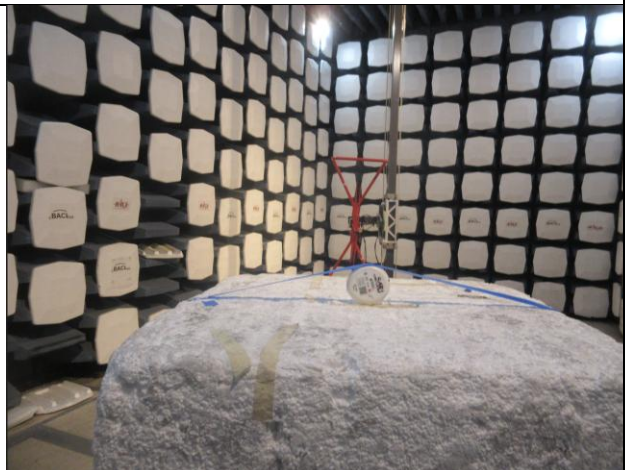
X-Y Front



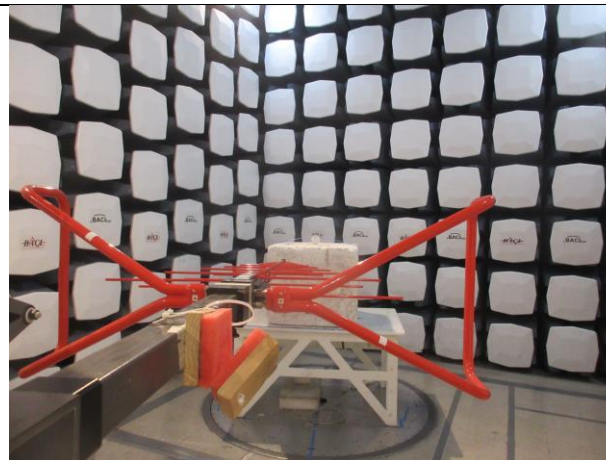
X-Y Rear



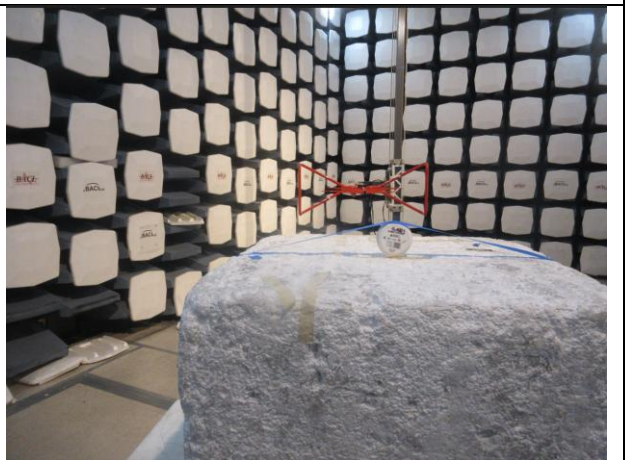
X-Z Front



X-Z Left



Y-Z Front



Y-Z Vertical