

# **Product Datasheet**





#### 1- Introduction

The NEX13-EXT-TR-001 is a versatile terminal mount dipole antenna designed to operate on both Bluetooth and Wi-Fi frequency bands. Standing at a compact 108mm in height with a slim 10mm diameter, its durable TPEE casing allows for flexible mounting, either in a straight position or angled, thanks to its hinged RPSMA(M) connector.

This antenna is particularly suited for various wireless technologies including Bluetooth, BLE, ZigBee, as well as Wi-Fi 6 and 7, and Wireless LAN systems. Engineered to deliver exceptional performance, the NEX13-EXT-TR-001 offers an omnidirectional radiation pattern, ensuring uniform signal distribution. It also boasts remarkably high efficiency and impressive gain across all Wi-Fi frequency bands, making it a reliable choice for high-demand wireless applications.



## 2- Specifications

Mechanical		
Height	108mm	
Diameter	Ø 10 mm	
Connector	SMA(M)	
Casing	TPEE	
Temperature Range	-40°C to 85°C	

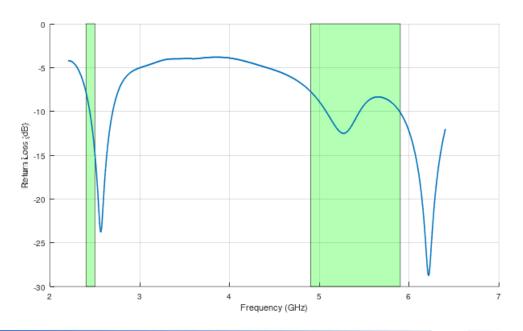
Electrical		
Frequency (GHz)	2.4/2.5	4.9/6.5
Return Loss (dB)	-8	-8
VSWR	3:1	3:1
Efficiency	83%	82%
Peak Gain (dBi)	2.5	2.4
Impedance	50Ω	
Polarization	Linear	
Pattern	Omni Directional	

<sup>\*</sup>Data are given for antenna on 120x120 mm metal ground plane. **www.nexus-rf.com** 

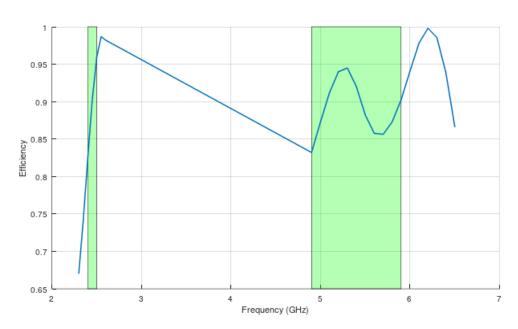


## 3- Antenna Parameters

#### 3.1- Return Loss



## 3.2- Efficiency

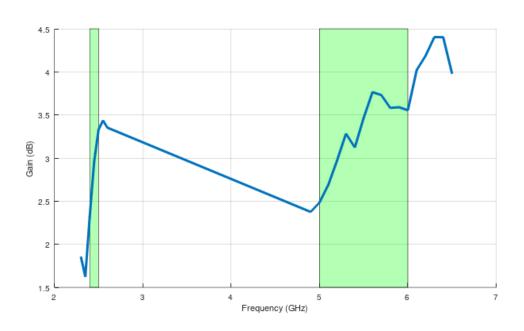


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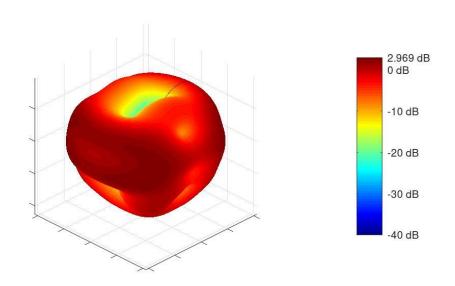


## 4- Radiaton Patterns

#### 4.1- Peak Gain



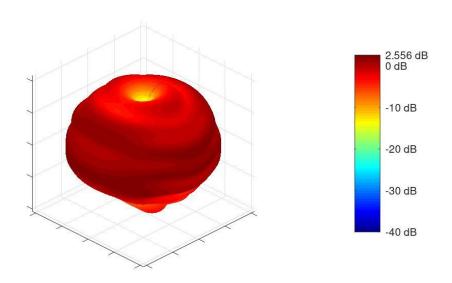
#### 4.2- 2450 MHz Pattern



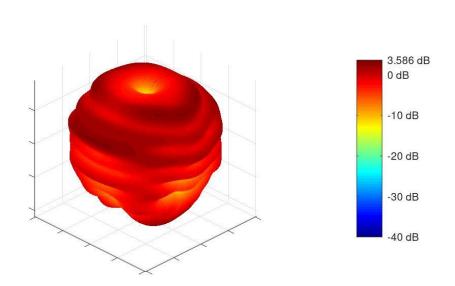
<sup>\*</sup>Data are given for antenna on 120x120 mm metal ground plane. **www.nexus-rf.com** 



## 4.3- 5000 MHz Pattern



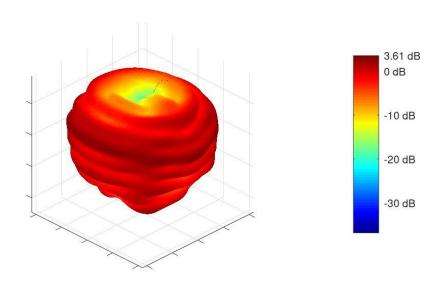
## 4.4- 5500 MHz



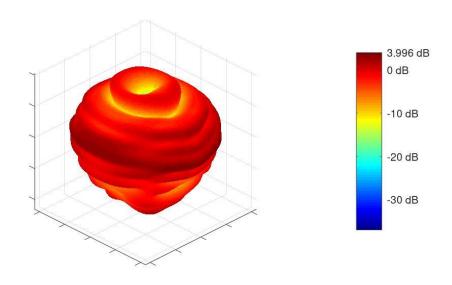
<sup>\*</sup>Data are given for antenna on 120x120 mm metal ground plane. **www.nexus-rf.com** 



## 4.5- 6000 MHz Pattern



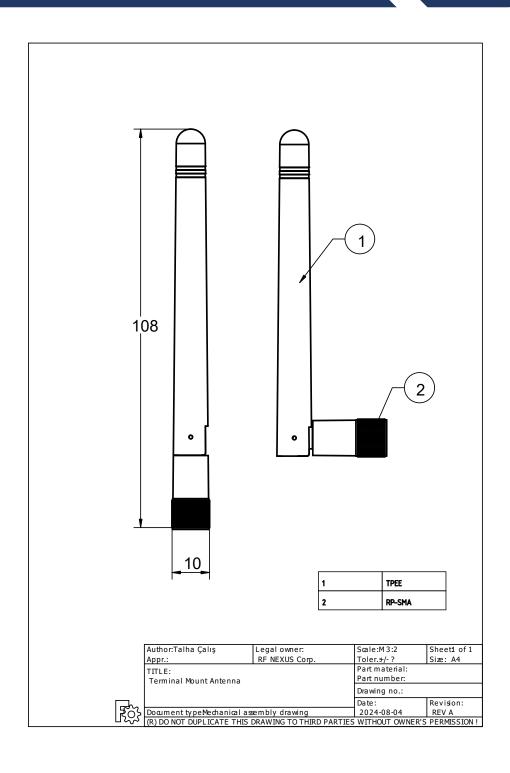
## 4.6- 6500 MHz



<sup>\*</sup>Data are given for antenna on 120x120 mm metal ground plane. **www.nexus-rf.com** 



## 5- Technical Drawing







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