

**RF
NEXUS**

Product Datasheet

NEX14-EXT-KB2-001

Key Features

- 4G/5G
- NB-IoT/ Cat-M1
- 700/960 MHz
- 1415/1515 MHz
- 1700/2900 MHz
- 3400/3800 MHz
- Screw Mount
- Usable With/Without Ground Plane
- Water Resistant
- Dimensions
Ø 42 × 94 mm



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1- Introduction

The NEX13-EXT-KB2-001 is a high-performance, high-gain antenna specifically engineered for permanent mounting, offering support across all Cellular bands, including the latest 5G frequencies, extending up to 3.8 GHz. Its omni-directional gain across both the sub1GHz, 1.4/1.5 GHz, 1.7/2.9 GHz and 3.4/3.8 GHz bands ensures consistent signal reception and transmission, making it an ideal solution for a wide range of cellular networking applications where uninterrupted connectivity is essential. This antenna is particularly well-suited for environments that demand high reliability and robust performance, even under challenging conditions.

Constructed with a durable, UV-resistant ABS housing, the NEX14-EXT-KB2-001 is designed to withstand exposure to the elements making it suitable for outdoor use. The housing is built to last, ensuring that the antenna remains functional and efficient over extended periods of heavy-duty operation.

The NEX14-EXT-KB2-001 standing at 73.5 mm in height with a 42mm diameter, making it both discreet and easy to integrate into a variety of setups without compromising on performance.

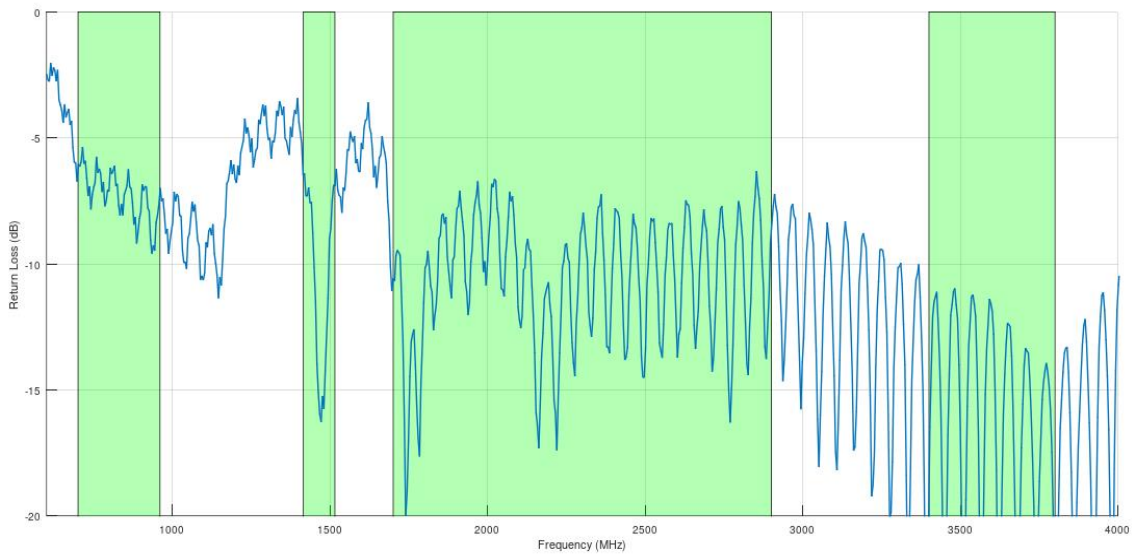
2- Specifications

Mechanical				
Size	73,5mm			
Diameter	42 mm			
Connector	SMA(M)			
Cable	3m LMR195			
Screw	M12 (1.75)			
Casing	ABS(UV)			
Weight	24g			
Temperature Range	-40°C to 85°C			
Electrical				
Frequency (MHz)	700/960	1415/1515	1700/2900	3400/3800
Return Loss (dB)	-6	-6	-6	-10
VSWR	3:1	3:1	3:1	2:1
Efficiency	40%	30%	25%	25%
Peak Gain (dBi)	-2	-1	-3	-1.5
Impedance	50Ω			
Polarization	Linear			
Pattern	Omnidirectional			

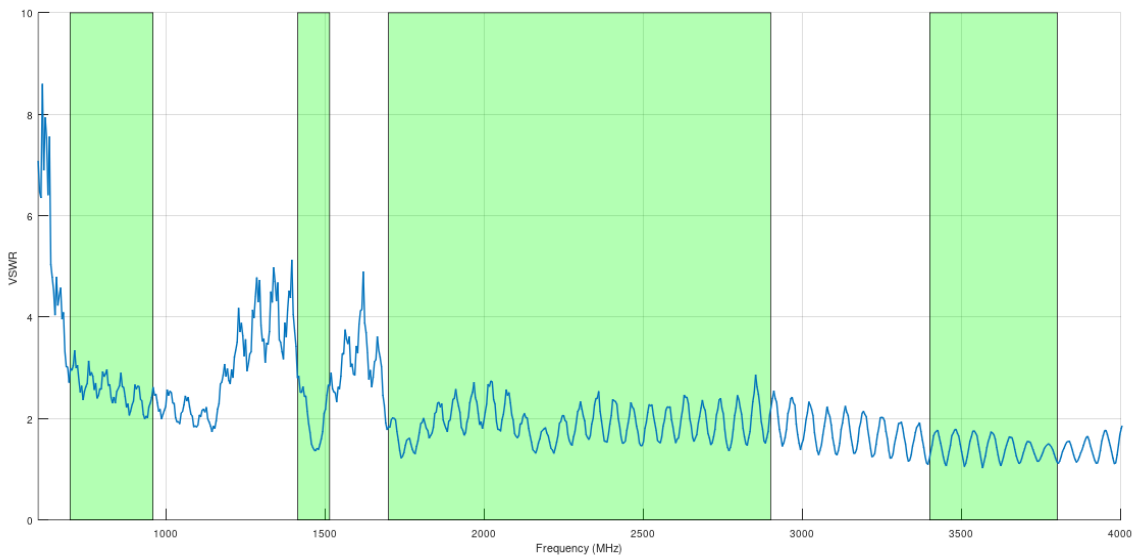
*Data are given for antenna in free space with 3m LMR195 cable .

3- Antenna Parameters

3.1- Return Loss

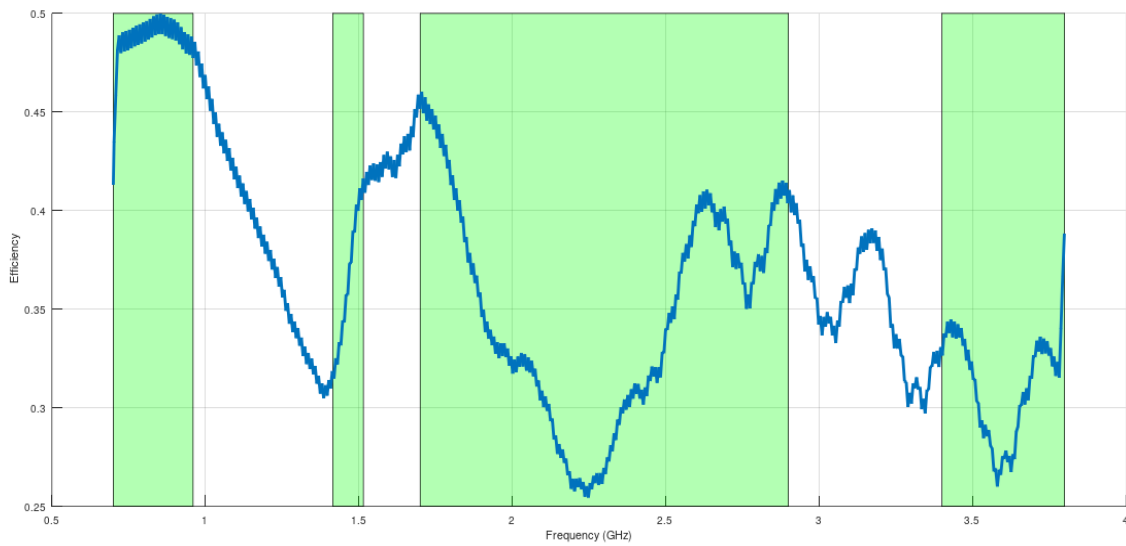


3.2- VSWR



*Data are given for antenna in free space with 3m LMR195 cable .

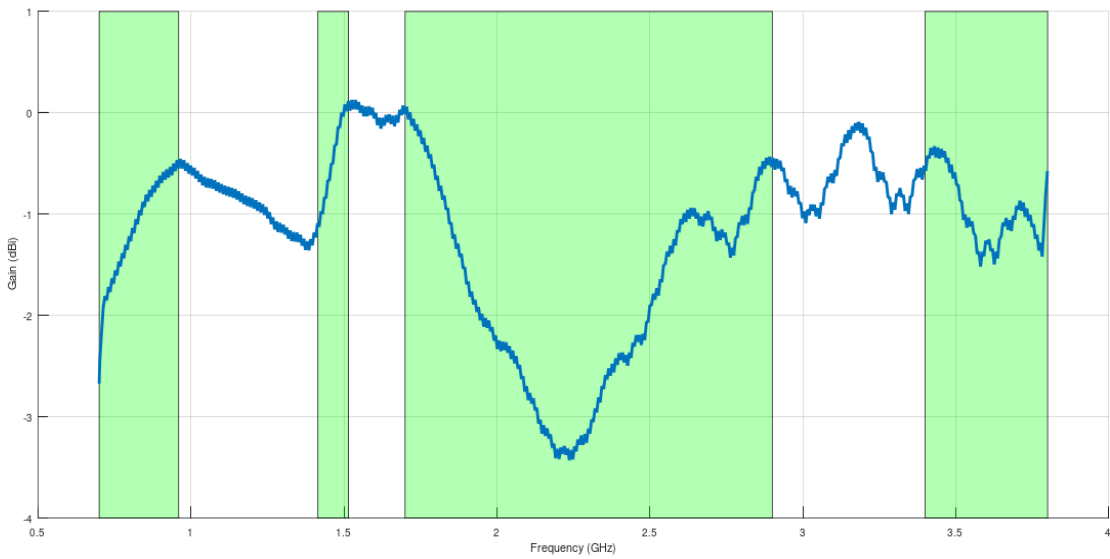
3.3- Efficiency



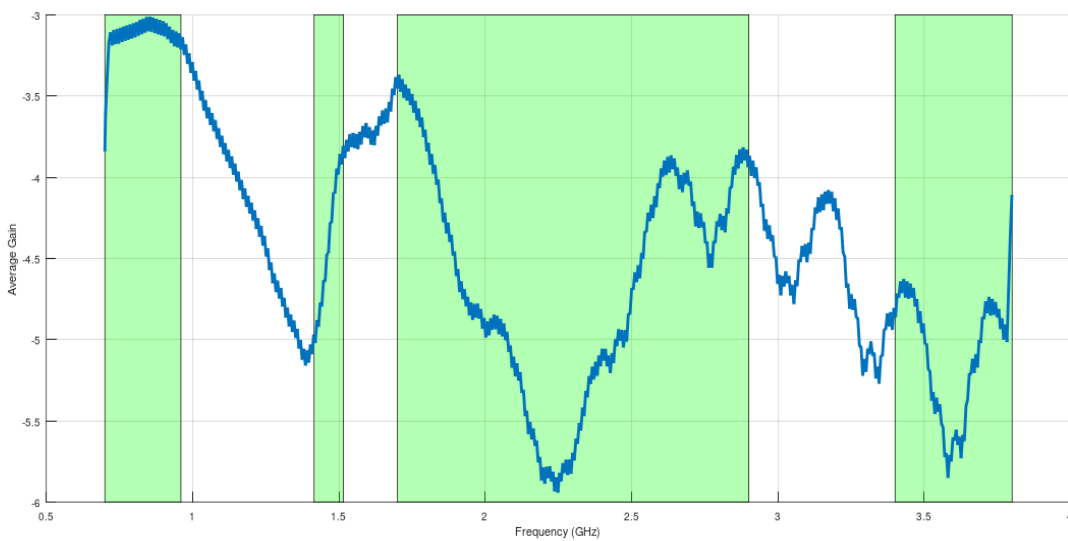
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4- Radiator Patterns

4.1- Peak Gain

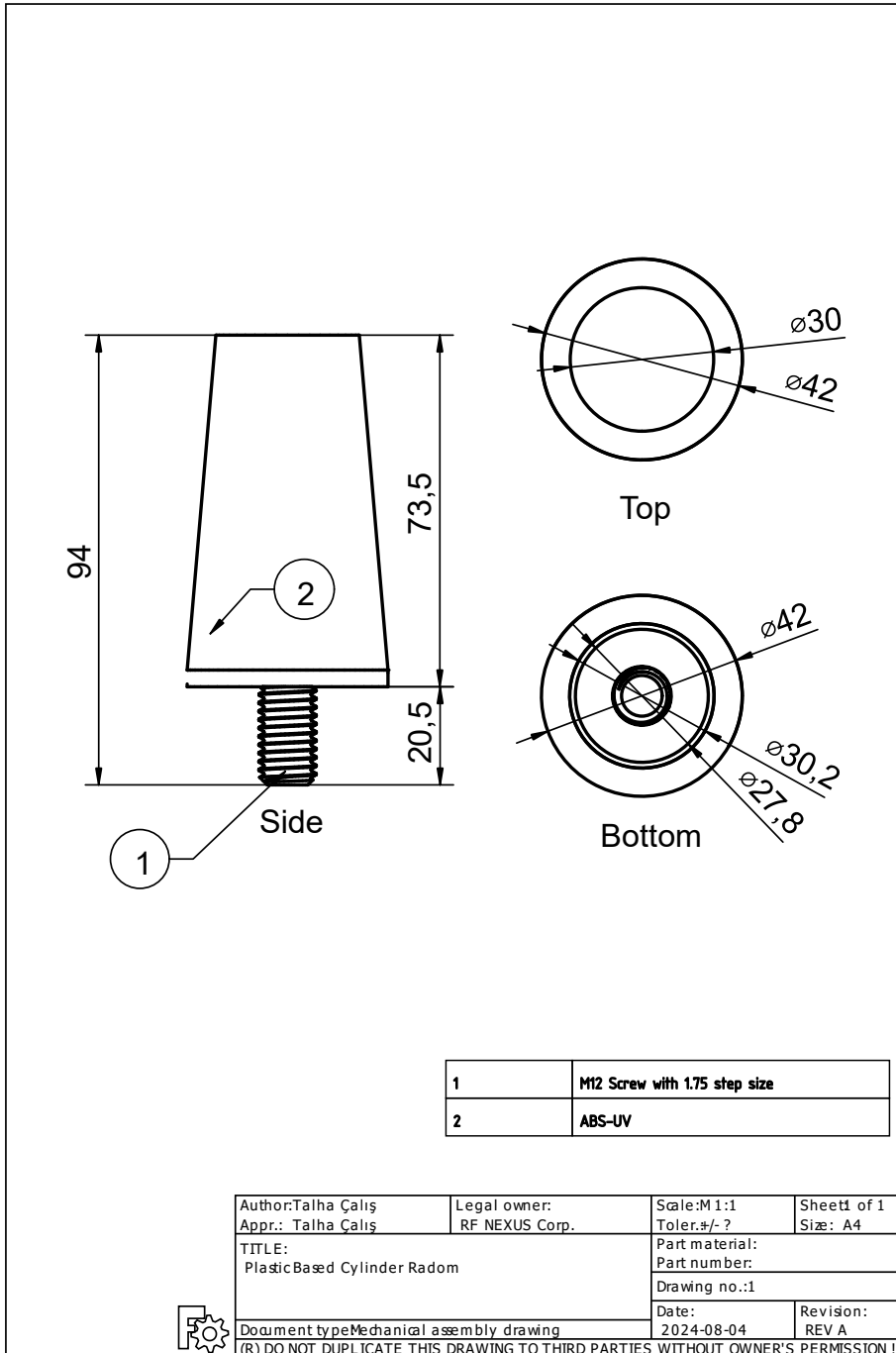


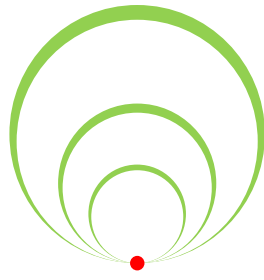
4.2- Average Gain



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5- Technical Drawing





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