

RFA-100-015: SMA ANTENNA WITH ELBOW, 617MHz to 2700MHz, ADDITIONAL SNAP 45°

Material and plating:

1. SMA Plug: Brass, Nickel plating
2. Bottom Base: PC+PBT, Black
3. Rivet: POM, Black
4. Cap: ABS, Black

Electrical

Frequency Range:
617MHz~960Mhz,
1710MHz~2700Mhz

Impedence: 50Ω

VSWR: 3.5 max.

Radiation: Omni

Gain: 3dBi +/-0.5

Polarization: Vertical

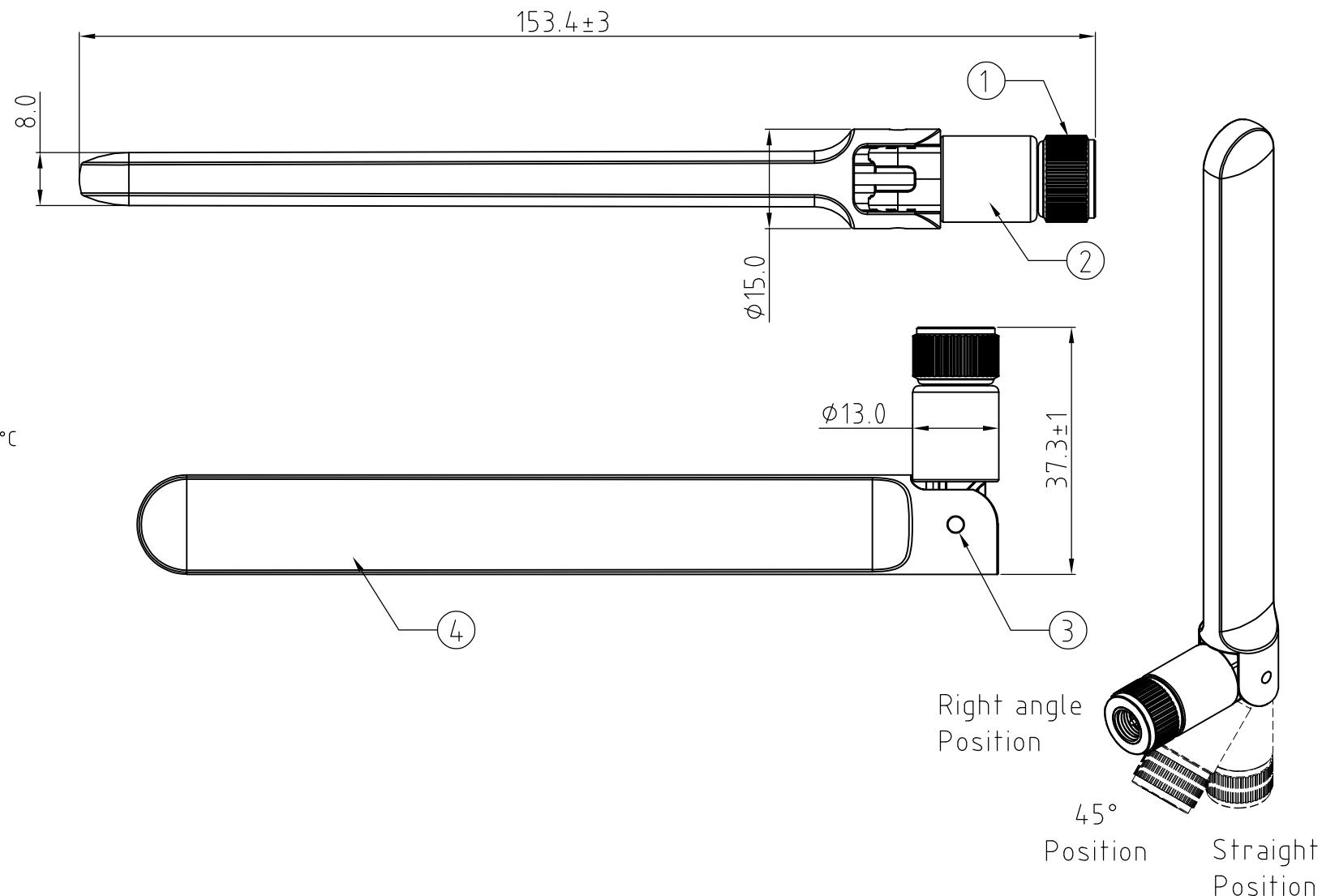
Maximum Power: 1W

Mechanical & Environment

Operating Temperature: -20°C to +65°C

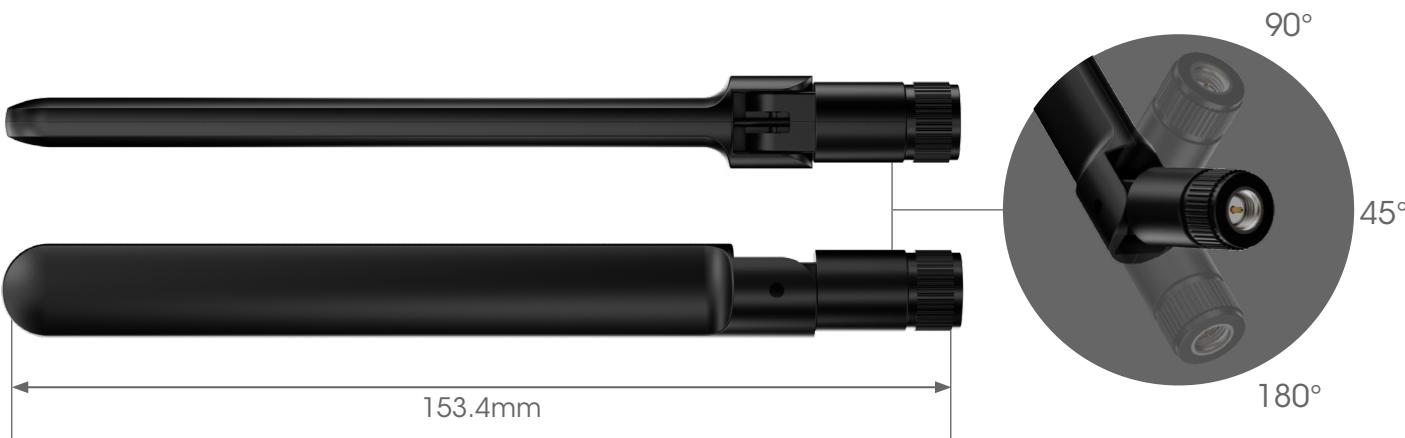
Weight: 14.4g

Lead free ROHS



RFA-100-015 Antenna

RF Antenna Stick | Dual Band | SMA Plug interface



Electrical Specifications

Description	Specification
Frequency Range/s	1710-2100MHz
Antenna Type	Stick Antenna
Number of Bands	2
Radiation Pattern	Omnidirectional
Polarization	Linear
Max. Input Power	1 Watt
Impedance	50Ω

Frequency	Return Loss	Peak Gain	Average Efficiency
1710-2100MHz	< -8.5 dB	6.25 dBi	42.6%

Mechanical Specifications

Description	Specification
Length	153.4 ± 3mm
Swivel Elbow	180°, 90°, 45°
Weight	15.4g
Termination	SMA
Radome Material	PC+PBT
Operating Temperature	-20°C to 65°C
Compliance	RoHS

Applications

Cellular Networks: LTE Band 3 (1800 MHz), 5G NR Band n1 (2100MHz)
IoT & M2M: LTE Cat-1 / Cat-M1 using Bands 3 & 1
Private Networks: Industrial and enterprise LTE deployments

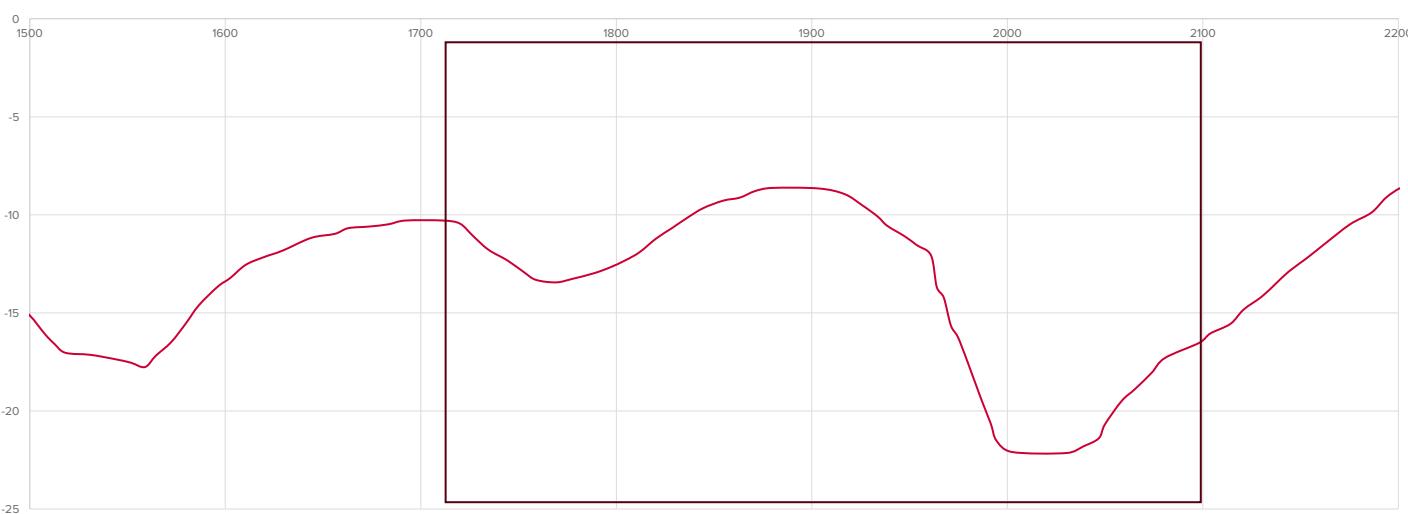
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Performance

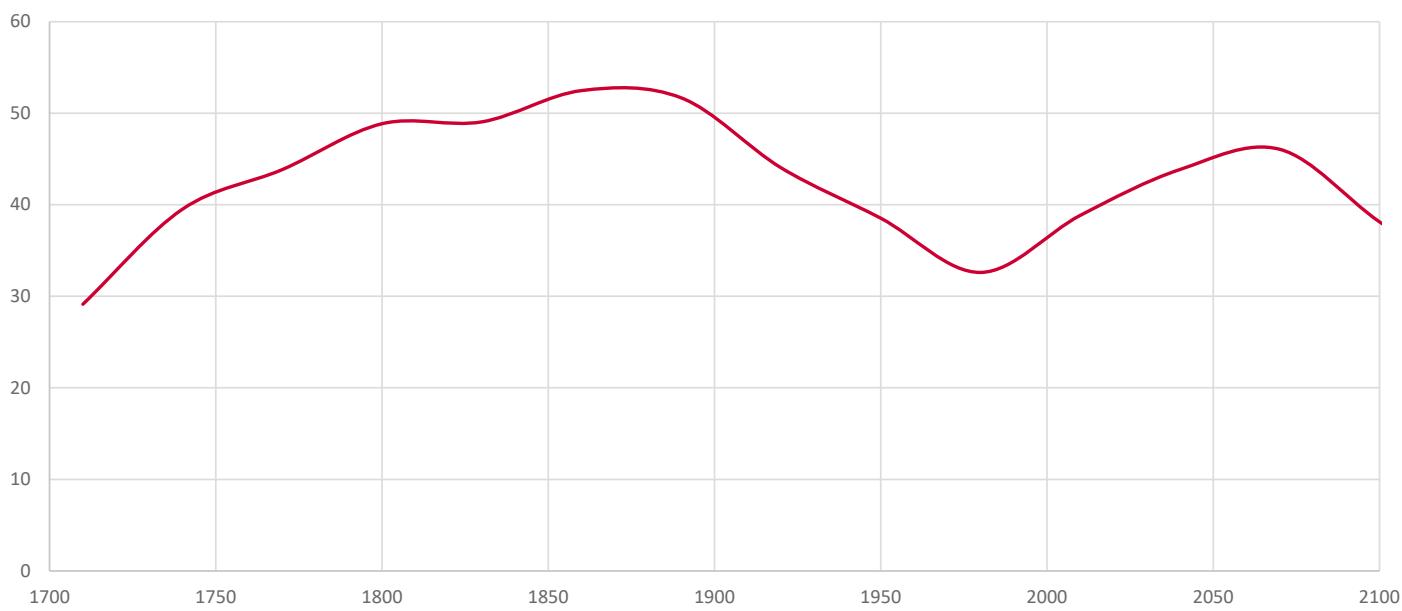
The test setup and measurements were conducted in a 3D anechoic chamber



Return Loss (dB) Chart



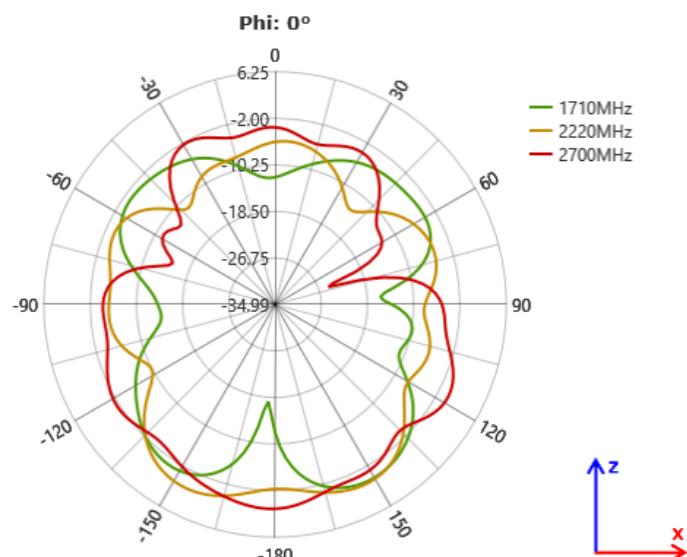
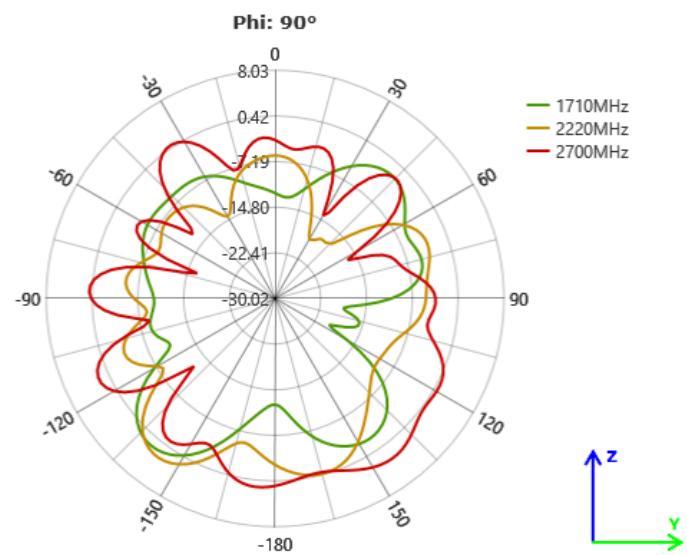
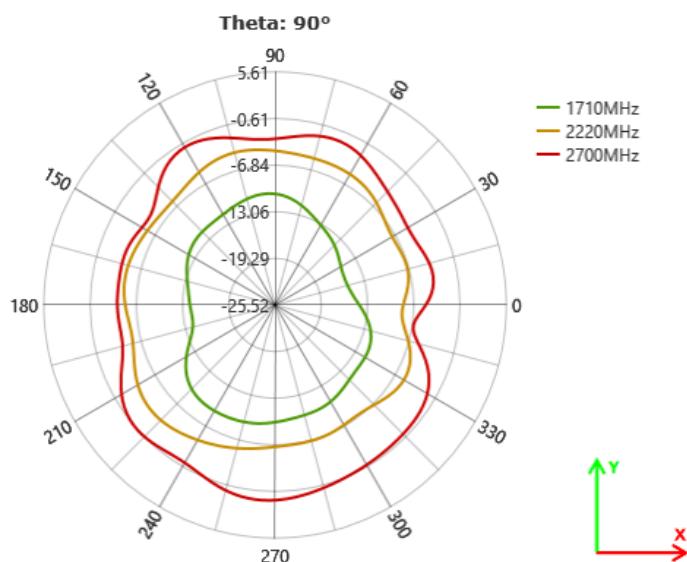
Efficiency



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Radiation Patterns

1710-2100MHz



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