

## UMTS Magnetantenne CELLULAR Magnetic Mount

### Key Features

#### CELLULAR

- 824-960 MHz
- 1710-2170 MHz

Magnetic Mount

Ground Plane Dependent

Customizable Cable and Connector

Dimensions Ø31 x 248.4 mm



## 1. Antenna and electrical specifications

Parameters	CELLULAR Antenna	
<b>Standards</b>	2G and 3G	
<b>Band (MHz)</b>	850/900	1700/1800/1900/2100
<b>Frequency (MHz)</b>	824-960	1710-2170
<b>Return Loss (dB)</b>	~-14.2	~-14.0
<b>VSWR</b>	~1.6:1	~1.5:1
<b>Efficiency (%)</b>	~48.6	~34.5
<b>Peak Gain (dBi)</b>	~-2.2	~-3.0
<b>Average Gain (dB)</b>	~-3.2	~-4.6
<b>Impedance (Ohm)</b>	50	
<b>Polarisation</b>	Linear	
<b>Radiation Pattern</b>	Omni-Directional	
<b>Max. Input Power (W)</b>	25	
<b>Connector Type</b>	Most RF Connectors (SMA-Male Standard)	
<b>Cable Length</b>	Any Cable Length (300cm Standard)	
<b>Cable Type</b>	Other Cables Available (RG174 Standard)	

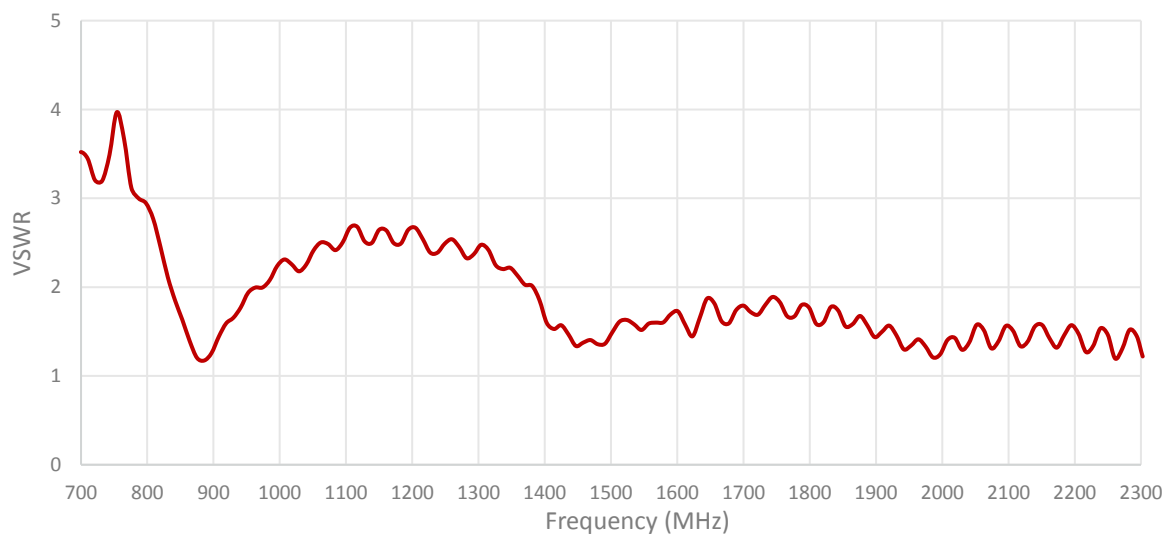
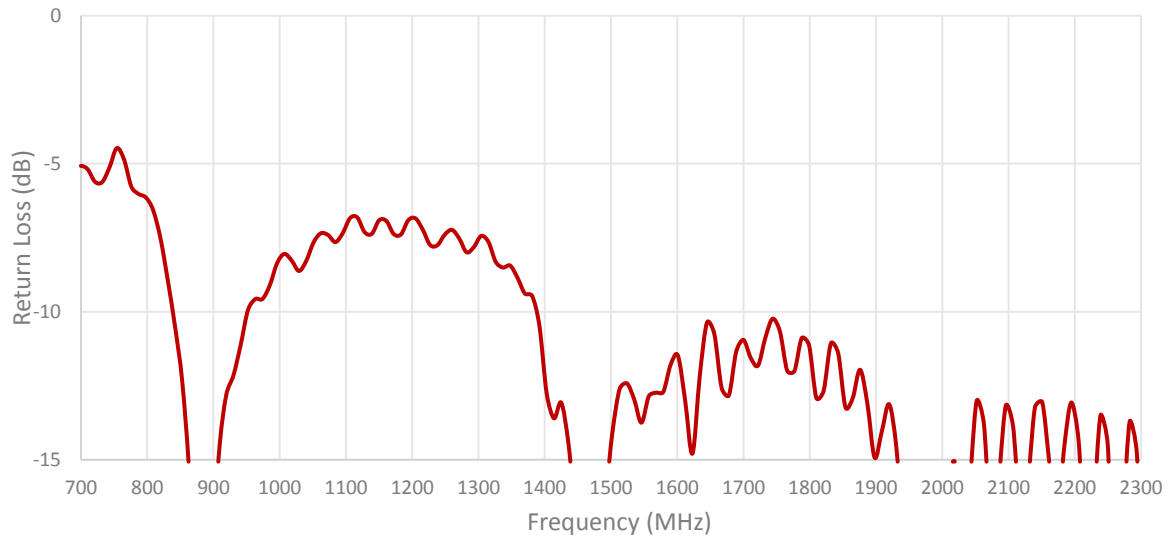
### Antenna Measurement Conditions:

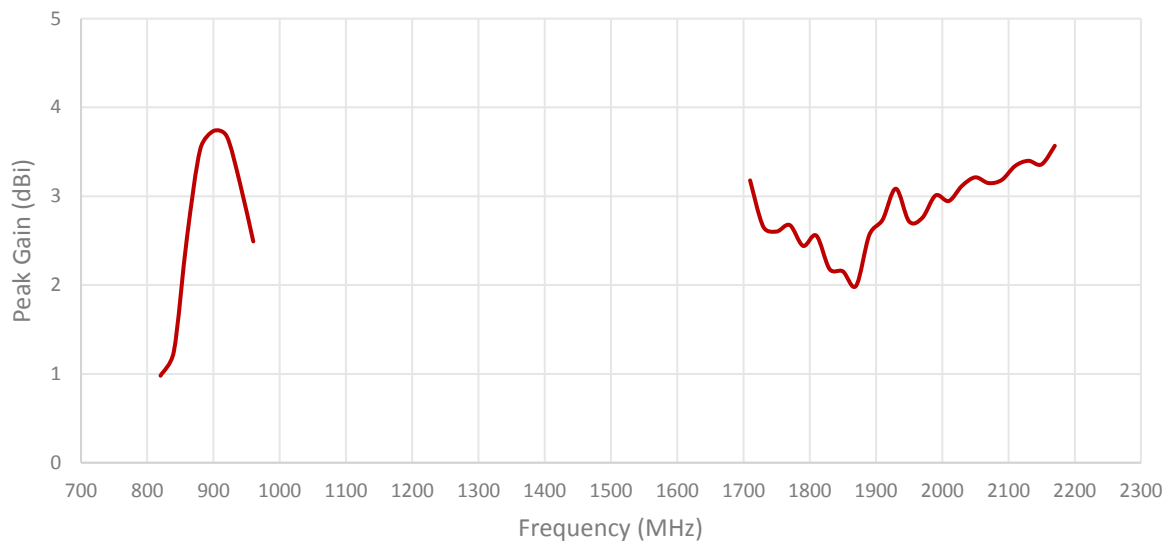
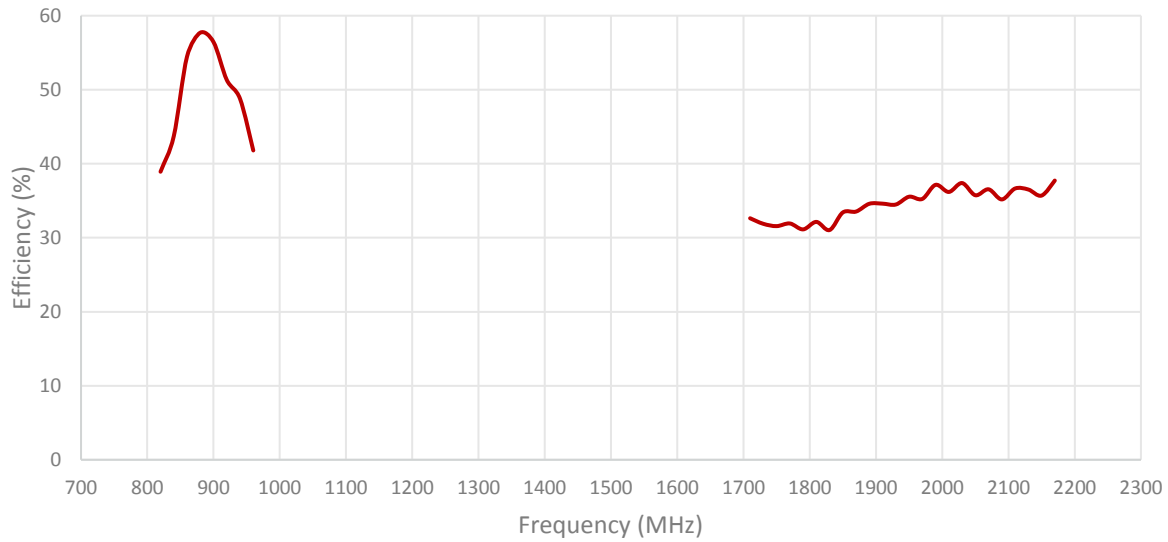
Mounted on 30 x 30 cm Ground Plane  
200 cm RG174 Cable Length  
Measured in Certified CTIA 3D Anechoic Chamber

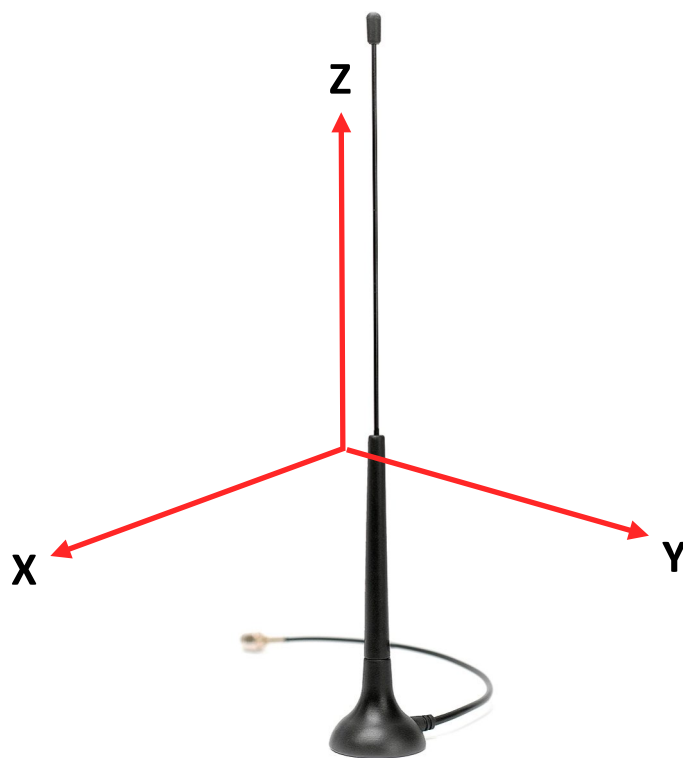
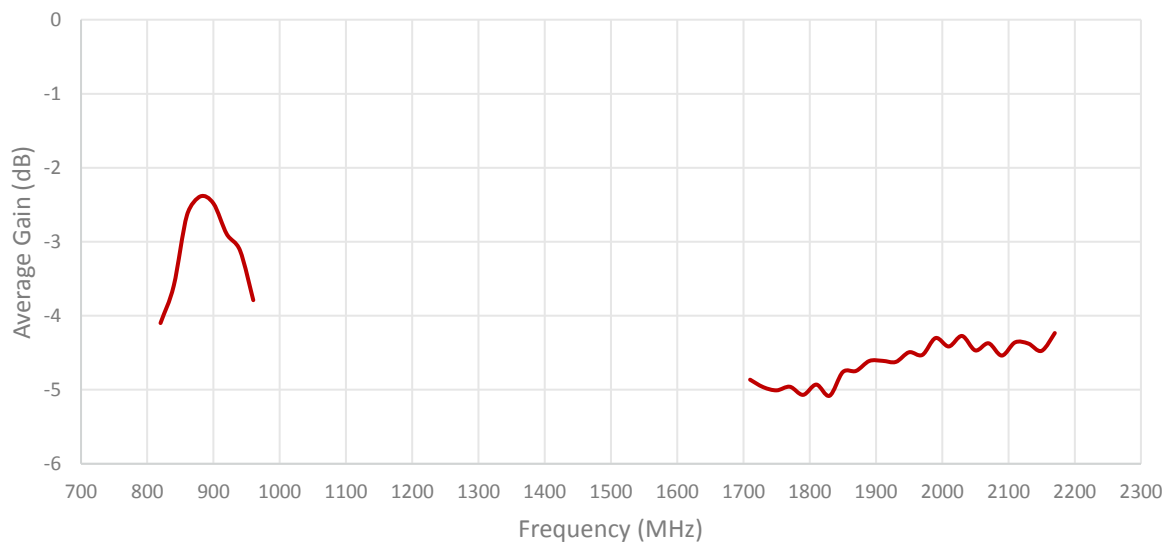
## 2. Mechanical and environmental specifications

Specifications	UMTS Magnetantenne
<b>Mounting Type</b>	Magnetic Mount
<b>Dimensions (mm)</b>	Ø31 × 248.4
<b>Radome</b>	PC/ABS UV Stable
<b>Radome color</b>	Black
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS

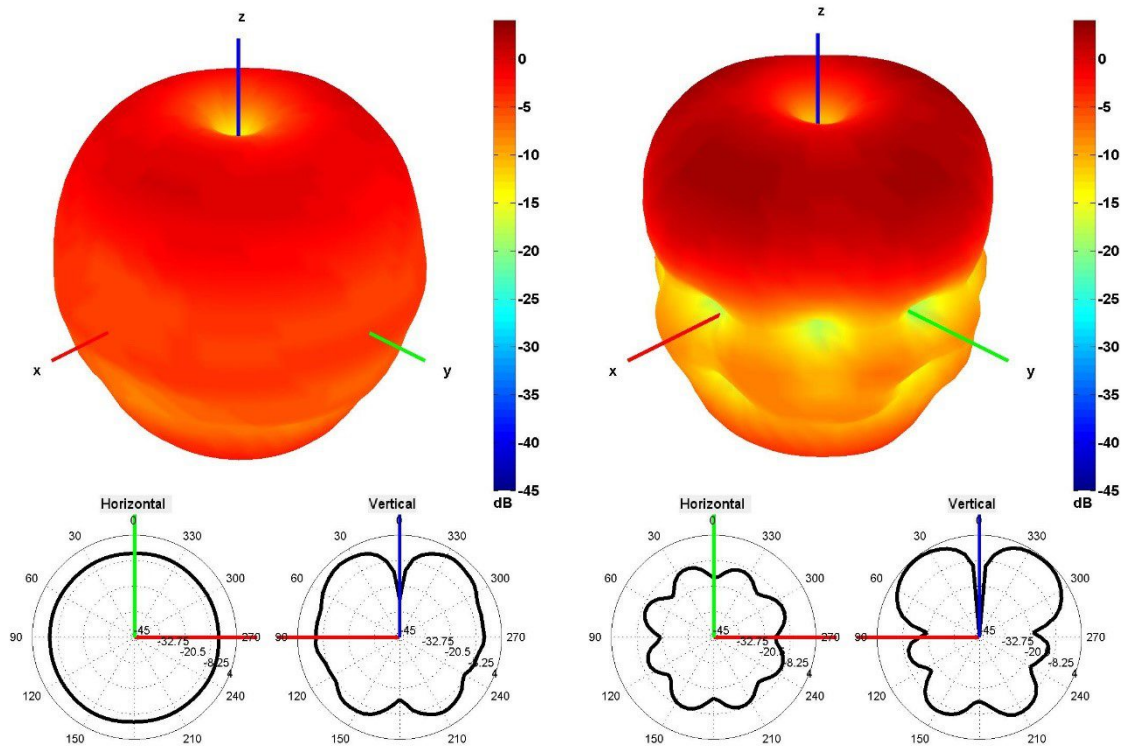
### 3. Antenna parameters



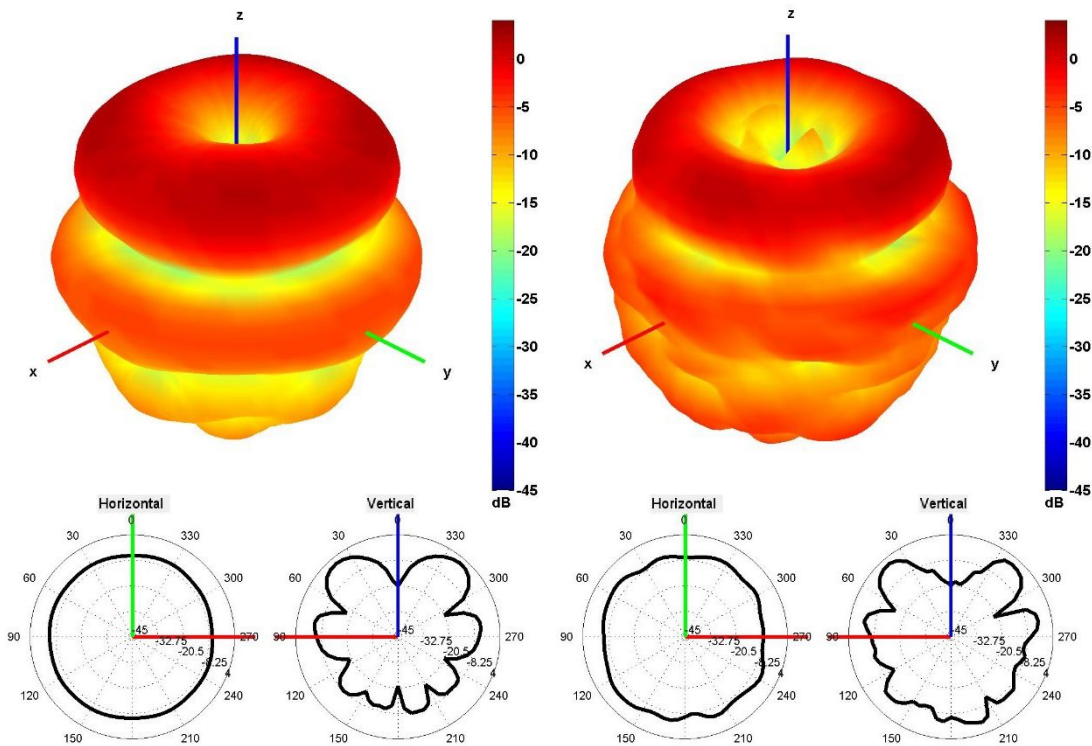




Radiation pattern reference



850 and 940 MHz Radiation pattern



1750 and 1850 MHz Radiation pattern

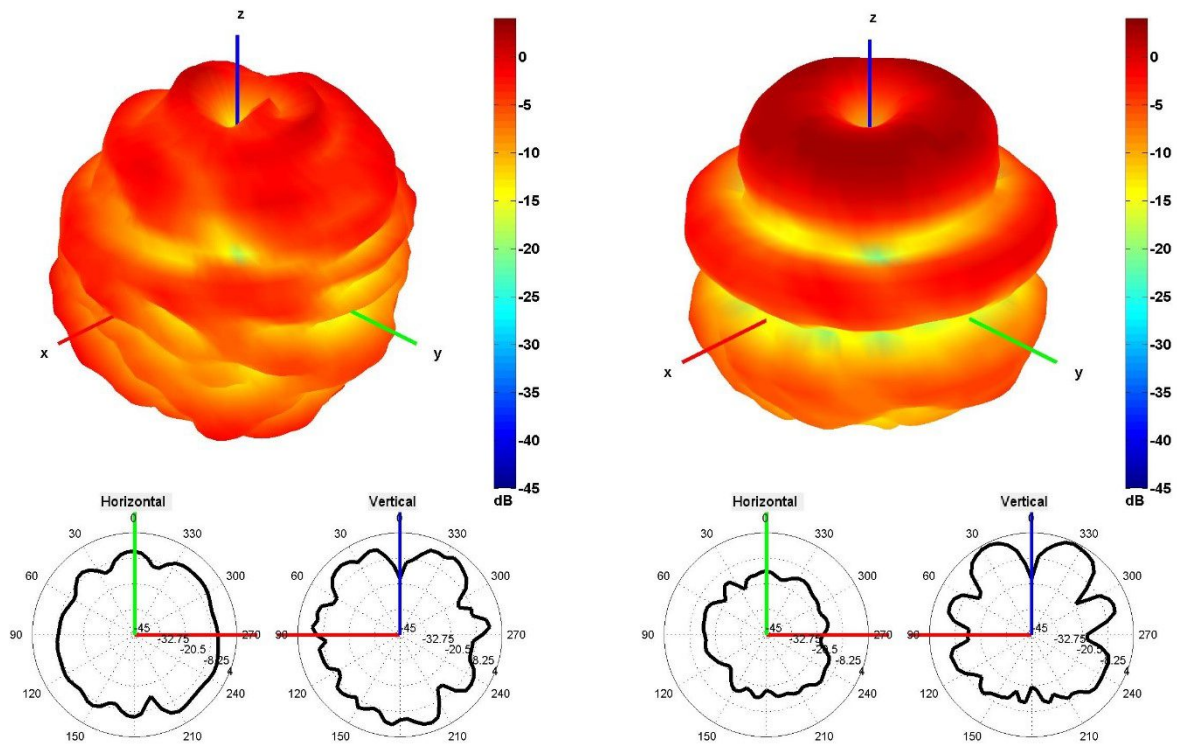
**m2m Germany GmbH**

Am Kappengraben 18-20

61273 Wehrheim

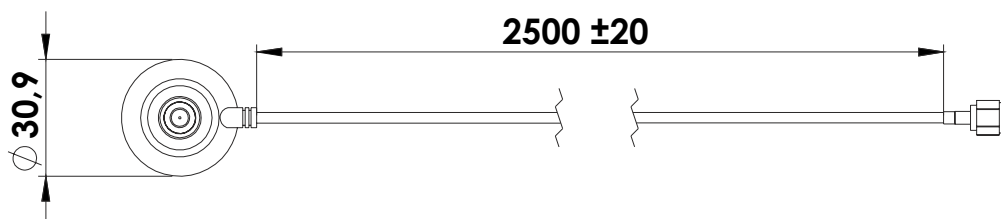
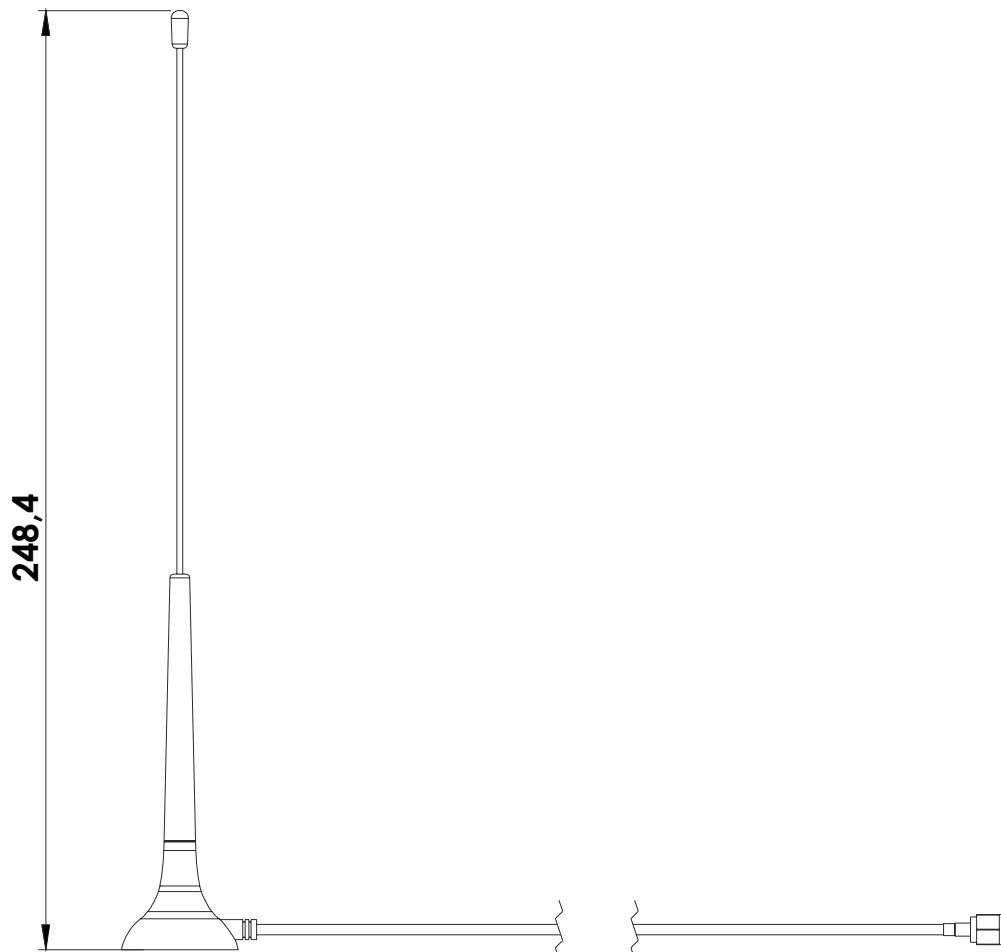
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1950 and 2100 MHz Radiation pattern

## 4. Antenna drawings





## 5. Antenna Images

