

LTE-MIMO Dach bzw. Magnethaftantenne

Type	LTE MIMO antenna
Frequencies	2x 4G/LTE (791-862/1710-2690 MHz) AMPS (824-894 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz)
Mounting	B-Body Mount M-Magnetic Mount



1. SPECIFICATION

1.1. *Electrical Specifications* LTE (Cable 1)

Frequencies	4G/LTE (791-862/1710-2690 MHz) AMPS (824-894 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz)
Impedance	50 Ohms

Polarization	Linear
Gain	5 dBi
VSWR*	<6:1
Power handling	50 W

LTE (Cable 2)

Frequencies	4G/LTE (791-862/1710-2690 MHz) AMPS (824-894 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz)
Impedance	50 Ohms
Polarization	Linear
Gain	5 dBi
VSWR*	<6:1
Power handling	50 W

Environmental

Operating temperature	40°C to +85°C
Certificates	IP67, IK09

*Values stated when measured on 20x20cm ground plane with 1m cable length

1.2. Connection Specifications

1.2.1.

Cable 1 (LTE):

Connector type: SMA male

Cable: RG58

Cable length: 1 m

Cable 2 (LTE):

Connector type: SMA male

Cable: RG58

Cable length: 1 m

For different cable length and connector type ask our sales team.

1.2.2.

Cable 1 (LTE):

Connector type: SMA male

Cable: RG58

Cable length: 1 m

Cable 2 (LTE):

Connector type: SMA male

Cable: RG174

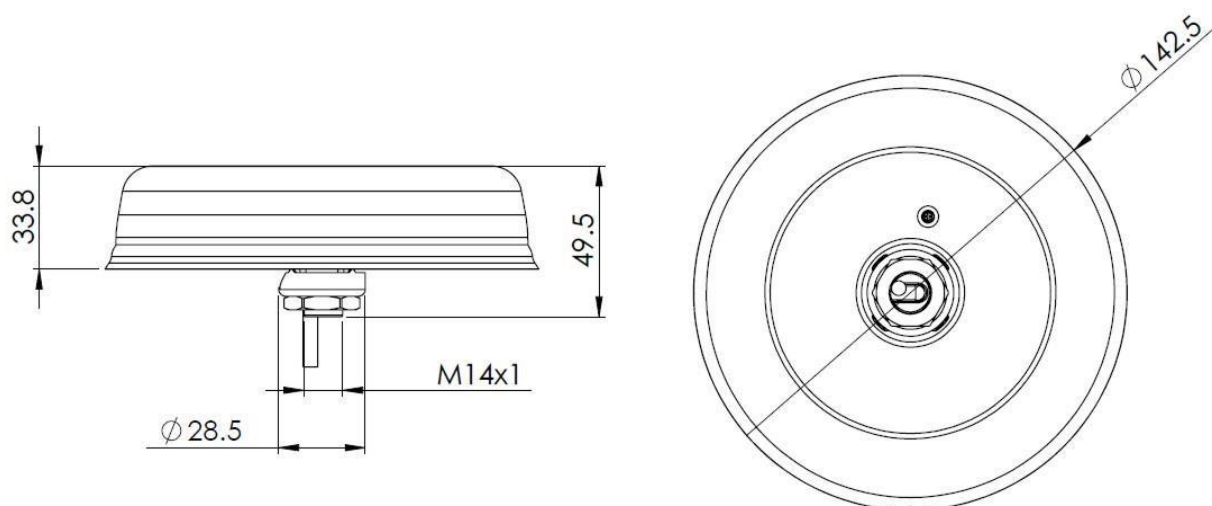
Cable length: 1 m

For different cable length and connector type ask our sales team.

1.3. Mechanical Specifications and Dimensions

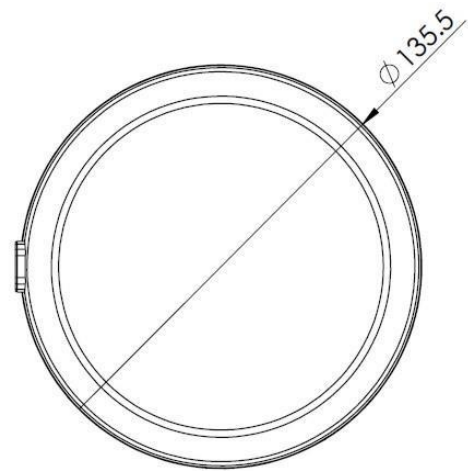
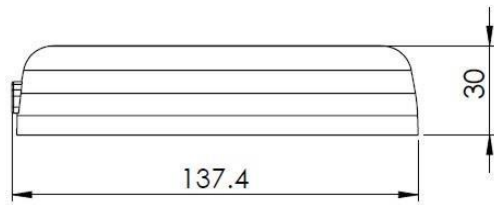
1.3.1.

Material: Lid: ABS / Base: Zamak / Gasket: TPE
 Max. dimensions: 146mm x 32mm (when placed on ground-plane)
 Colour: Black/ Green/ White (for different colours please ask our sales team)

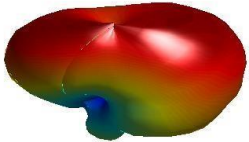
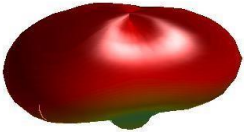
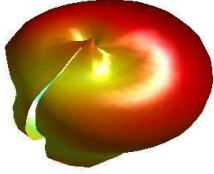
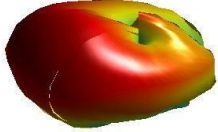


1.3.2.

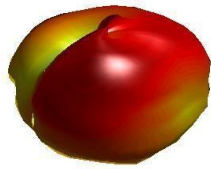
Material: Lid: ABS / Base: Zamak
 Max. dimensions: 135.5mm x 30mm
 Colour: Black/ Green/ White (for different colours please ask our sales team)



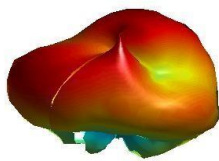
2. MEASUREMENT

850MHz LTE1 and LTE2	900MHz LTE1 and LTE2
Freq = 0.8530GHz Az= 45 EL= 45  Freq = 0.8530GHz Az= 45 EL= 45 	Freq = 0.897GHz Az= 45 EL= 45  Freq = 0.897GHz Az= 45 EL= 45 
1800MHz LTE1 and LTE2	1900MHz LTE1 and LTE2

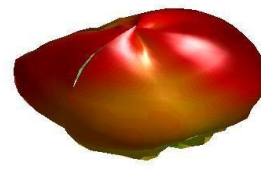
Freq = 1.799GHz Az= 45 EL= 45



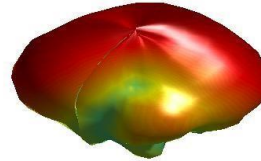
Freq = 1.799GHz Az= 45 EL= 45



Freq = 1.909GHz Az= 45 EL= 45

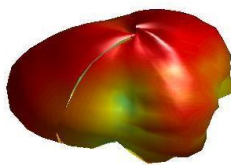


Freq = 1.898GHz Az= 45 EL= 45

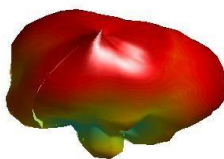


2100MHz LTE1 and LTE2

Freq = 2.107GHz Az= 45 EL= 45

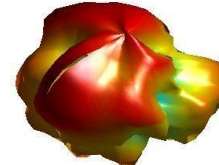


Freq = 2.107GHz Az= 45 EL= 45

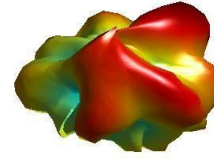


2600MHz LTE1 and LTE2

Freq = 2.602GHz Az= 45 EL= 45



Freq = 2.602GHz Az= 45 EL= 45



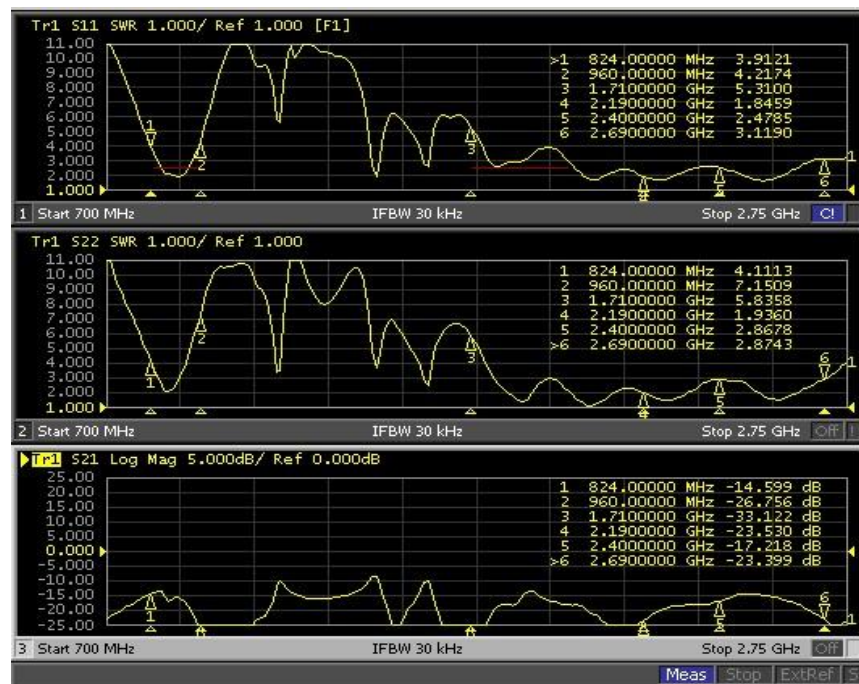


Figure 1 - VSWR for LTE 1 and LTE2 and antenna isolation