

## Planar Combination Antenna C60ZCW\_WP

GSM 850/900/1800/1900 MHz + UMTS + Double WLAN 2400 MHz

Window Mount



- **Including 868 MHz – services and DECT**
- **Adhesive bonding antenna waterproof IP68, appropriate to mount the antenna outside**
- **No changes and modifications on the body**
- **Our products are RoHS- and REACH-conform**



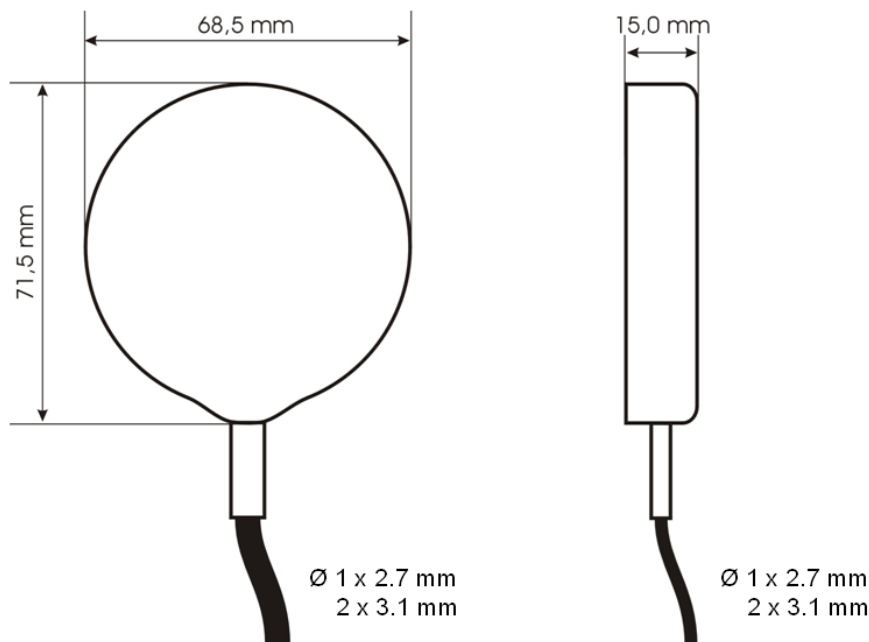
## Technical Data

| <b>GSM</b>          |  | <b>WLAN</b>     |  |
|---------------------|--|-----------------|--|
| Frequency Range     | 850/900/1800/1900 + 2100 MHz   | Frequency Range | 2400 MHz                                     |
| VSWR*               | < 2.0 typ.   | VSWR*           | < 2.0 typ.                                   |
| Peak Gain*          | +5 dBi typ. (900 MHz)<br>+3 dBi typ. (1800MHz)<br>+1 dBi typ. (2100 MHz) | Peak Gain*      | +4 dBi typ. (WLAN 3)<br>+4 dBi typ. (WLAN 2) |
| Power max.          | 10 W   | Power max.      | 10 W   |
| Diagnostic resistor | 10 kΩ (others on request)  |                 |  |

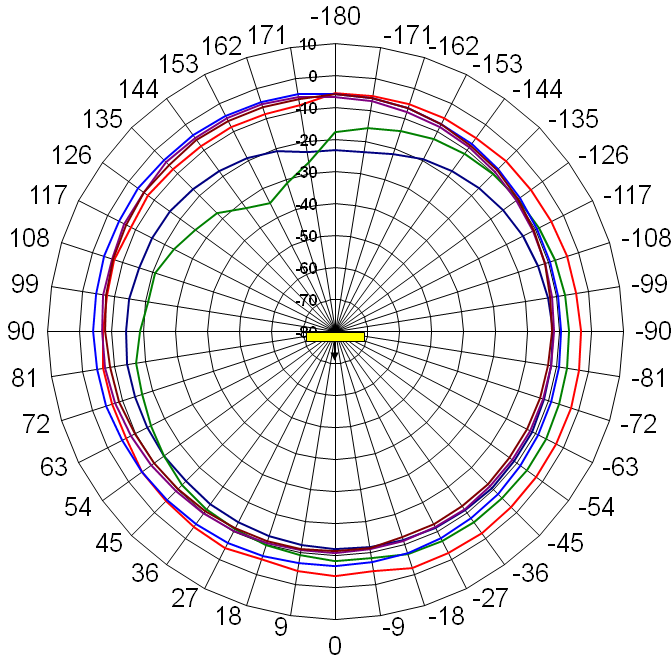
\* Measured with 0.6m cable on 30x30cm ground plane

## Mechanical Data

|                       |  |
|-----------------------|--|
| Dimensions (ØxH)      | ca. 70 mm x 15 mm  |
| Temperature Range     | -40°C to +85°C (operating temperature)   |
| Connection (Standard) | ca. 3m connecting cable RG174 with GSM/FME(f); GPS/SMA(m)<br>ca. 3m connecting cable RG174 with WLAN/SMA(m)<br>Other cablelengths and connectors see ordering example and connector list in Internet |

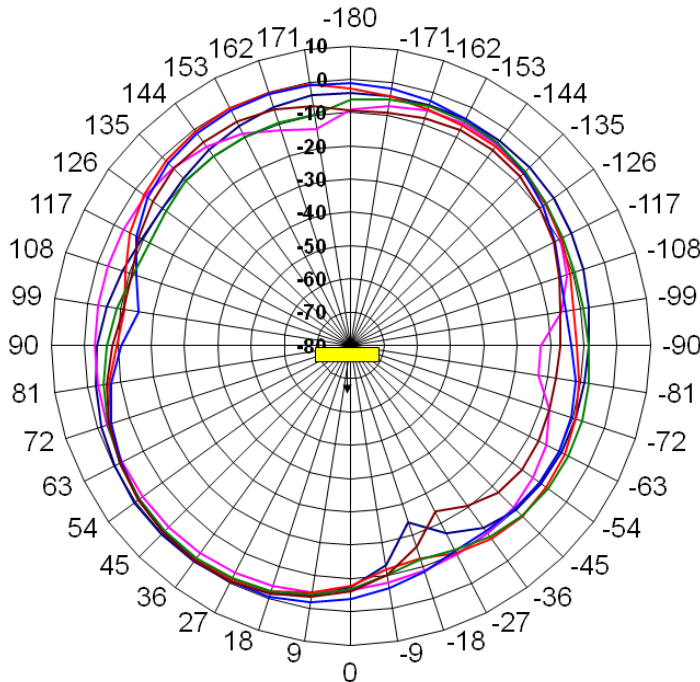


**Radiation diagram (typ.)\***



**GSM 900 MHz**  
Peak Gain: -1 dBi

- 820
- 848
- 876
- 904
- 932
- 960



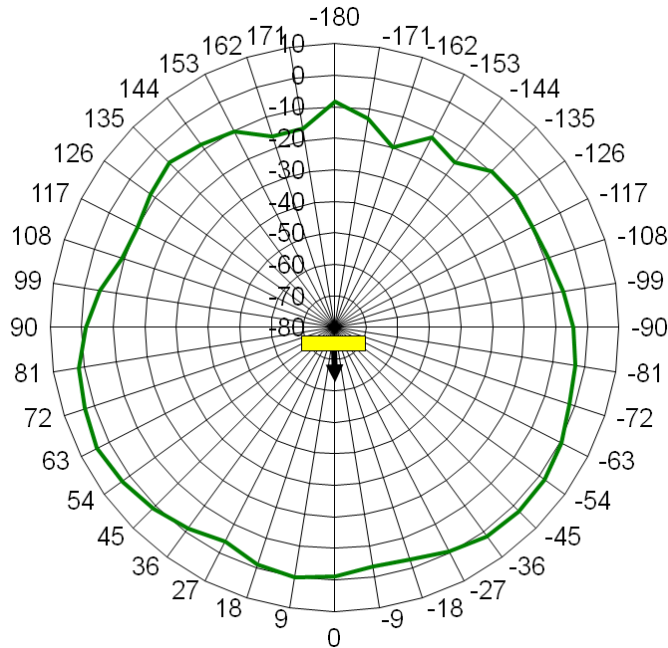
**GSM 1800 MHz**  
Peak Gain: +2 dBi

- 1710
- 1788
- 1866
- 1944
- 2022
- 2100

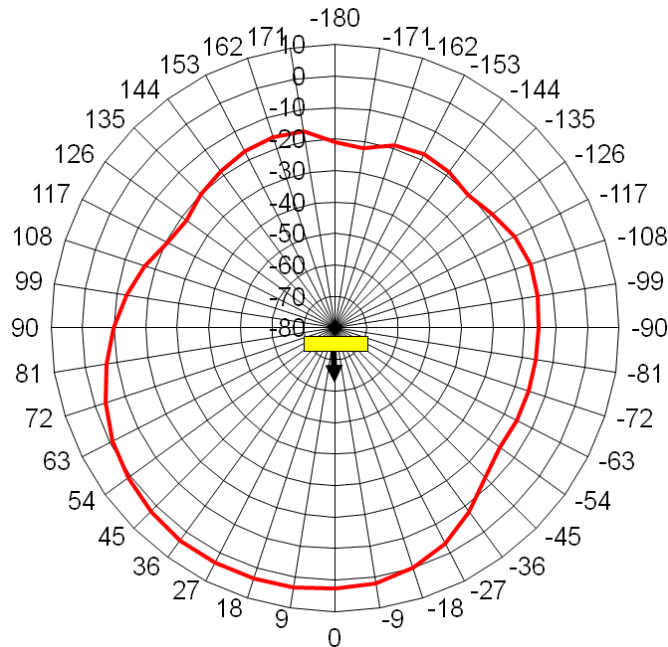
**GSM 2100 MHz**  
Peak Gain: +2 dBi

\* Measured with 0.6m cable on 30x30cm glass pane

**Radiation diagram (typ.)\***



WLAN 3 2400 MHz  
Peak Gain: +4 dBi



WLAN 2 2400 MHz  
Peak Gain: +4 dBi

\* Measured with 0.6m cable on 30x30cm ground plane

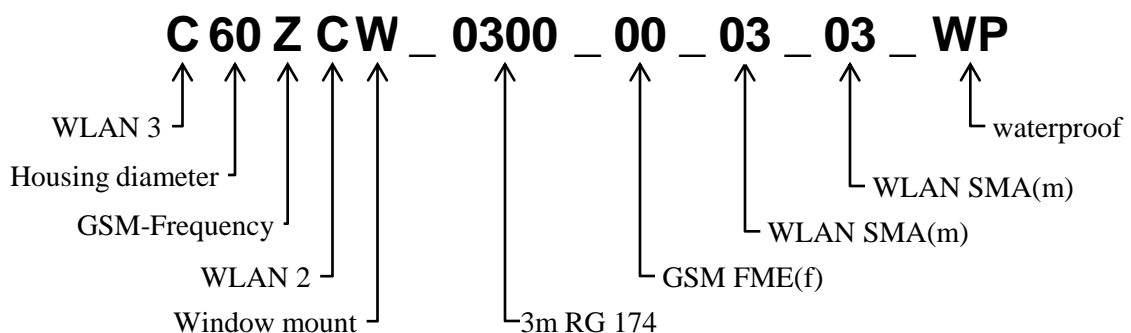
## Mounting Instructions

- To avoid mechanical stress the antenna should not be attached on doors or flaps.
- No extra ground planes are necessary for this antenna (ground plane inside).
- The Operation of the antenna is only guaranteed by installation with the delivered sticker.
- Mountable on all clean, smooth and stainless surfaces.
- Mountable on glass and non-metallic materials.
- Don't stick the antenna under +10°C to get an optimal adhesion of the sticker.
- Clean seating nonfat before sticking by using the delivered cleaning cloth.
- First remove protection foil on one side of the sticker and stick it on the seating, avoid formation of bubbles.
- Now the other protection foil has to be removed from the sticker. Stick the antenna on with it's level side and advantage direction (cable pointing below) and apply sufficient pressure.

**Delivery includes:** Sticker; cleaning cloth with isopropanol

**Important:** Before sticking please test the adhesive bonding possibility of the material!

## Ordering example



## Warranty

The lawful warranty conditions apply.