

## Planar Combination Antenna C60ZPD

Desk Mount

WLAN 2400 MHz + GSM 850/900/1800/1900 MHz + UMTS + GPS passive



- No changes and modifications on the body
- Mounting by adhesive bonding possible on non-metallic surfaces (adhesive bonding antenna)
- Including 868 MHz – services and DECT
- Our products are RoHS- and REACH-conform



## Technical Data

### GSM

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

### GPS

|           |             |
|-----------|-------------|
| Frequency | 1575.42 MHz |
| VSWR      | 1.5 typ.    |
| Peak Gain | 0 dBi typ.  |

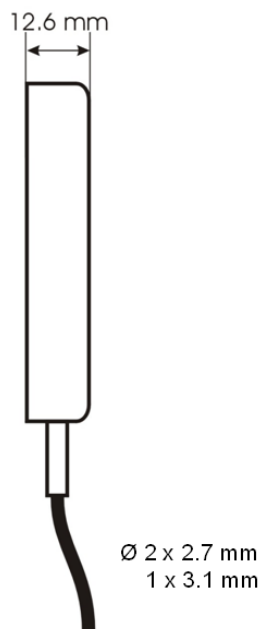
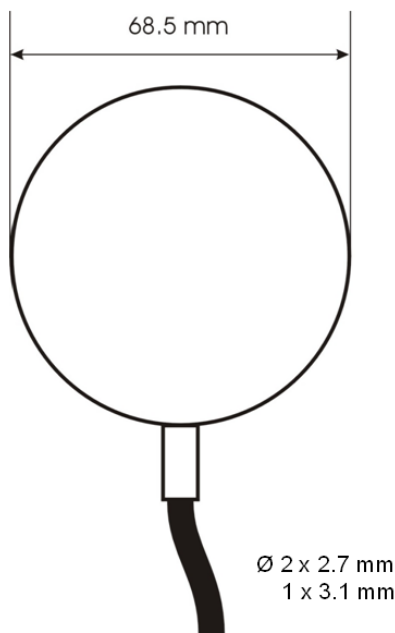
### WLAN

|                 |            |
|-----------------|------------|
| Frequency Range | 2400 MHz   |
| VSWR*           | < 2.0 typ. |
| Peak Gain*      | +4 dBi typ |
| Power max.      | 10 W       |

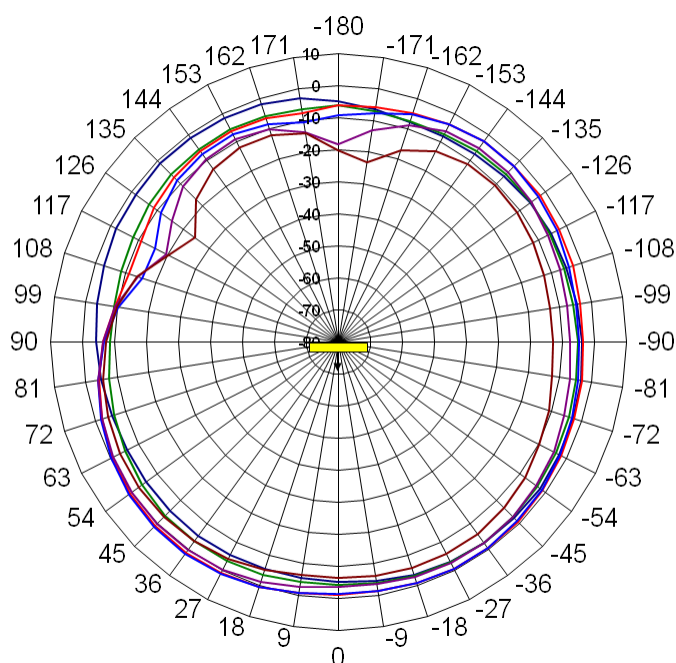
\* Measured with 0.6m cable on 30x30cm ground plane

## Mechanical Data

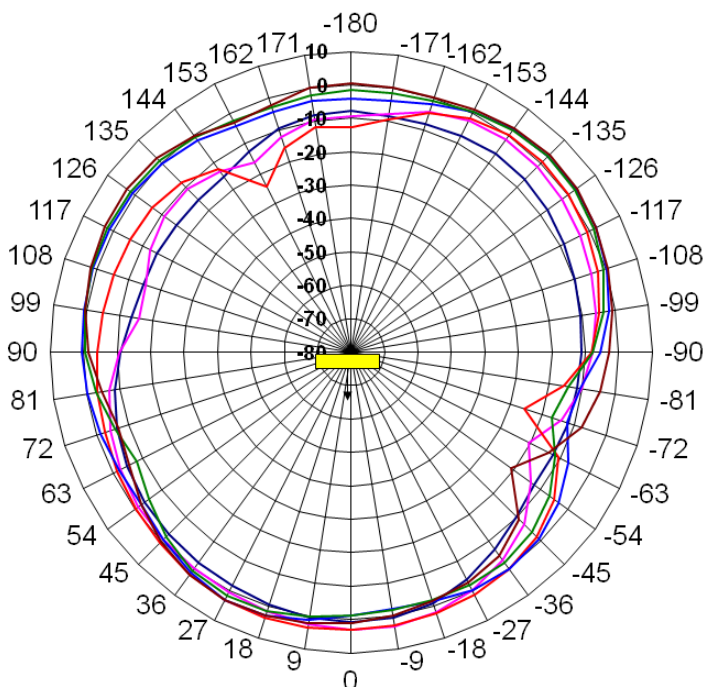
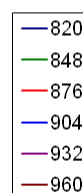
|                       |                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (ØxH)      | ca. 68 mm x 12 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 low loss with WLAN/SMA(m)<br>Other cablelengths and connectors see ordering example and connector list in Internet |



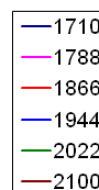
## Radiation diagram (typ.)\*



**GSM 900 MHz**  
Peak Gain: +2 dBi



**GSM 1800 MHz**  
Peak Gain: +3 dBi

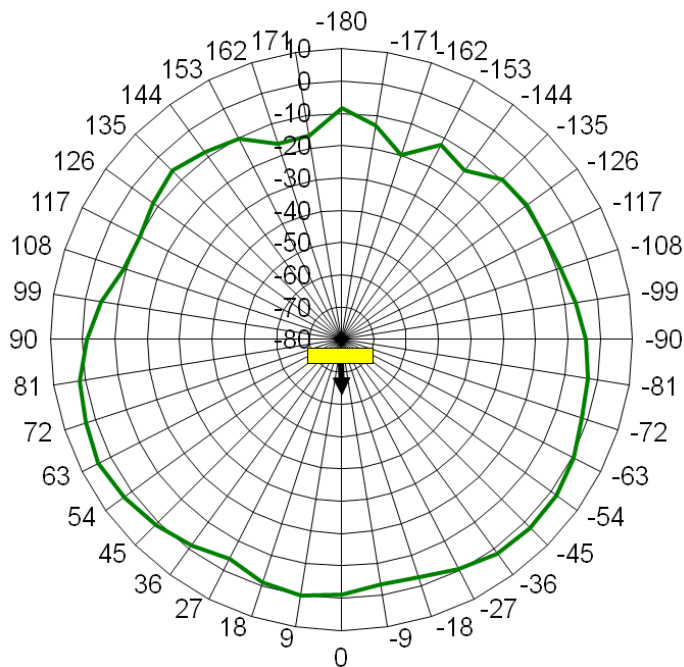


**GSM 2100 MHz**  
Peak Gain: +1 dBi

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

## Radiation diagram (typ.)\*

WLAN 2400 MHz  
Peak Gain: +4 dBi



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

## Accreditation

|                          |        |                     |                 |
|--------------------------|--------|---------------------|-----------------|
| <input type="checkbox"/> | E-Code | <b>e 13 02 1510</b> | high gain (A)   |
| <input type="checkbox"/> | E-Code | <b>e 13 02 1509</b> | low gain (L)    |
| <input type="checkbox"/> | E-Code | <b>e 13 03 6371</b> | low current (V) |

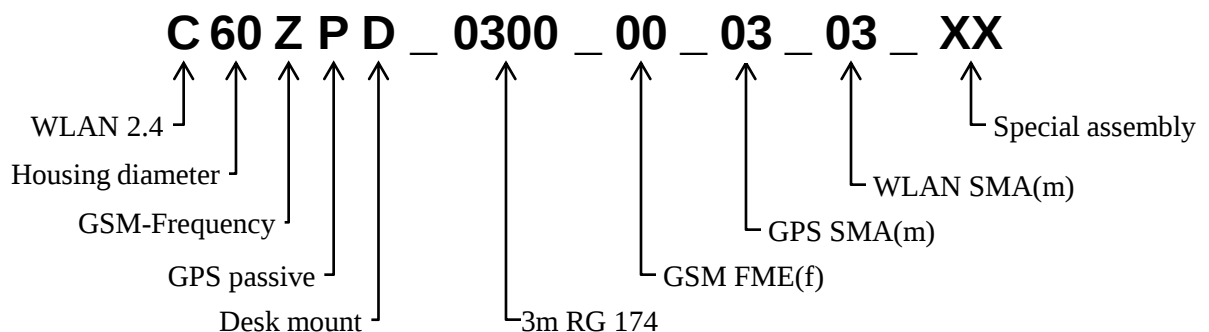
## Mounting Instructions

- 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).
- Mountable on all clean, smooth and stainless surfaces.
- 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.