

Planar Combination Antenna C60ZVD_WP Desk Mount

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



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



Technical Data

| GSM | | GPS | |
|---------------------|---|----------------------|-------------------|
| Frequency Range | 850/900/1800/1900 + 2100 MHz | Frequency | 1575.42 MHz |
| VSWR* | < 2.0 typ. | VSWR | 1.5 typ. |
| Peak Gain* | +1 dBi typ. (900 MHz) +3 dBi typ. (1800 MHz) +4 dBi typ. (2100 MHz) | Peak Gain | 18 dBi typ. |
| Power max. | 10 W | Power Supply | 3V ±10%; 4mA typ. |
| Diagnostic resistor | 10 kΩ (others on request) | V _{DD} max. | 4.0V |
| | | Input Power max. | +10dBm |
| | | Current max. | 4.5mA |

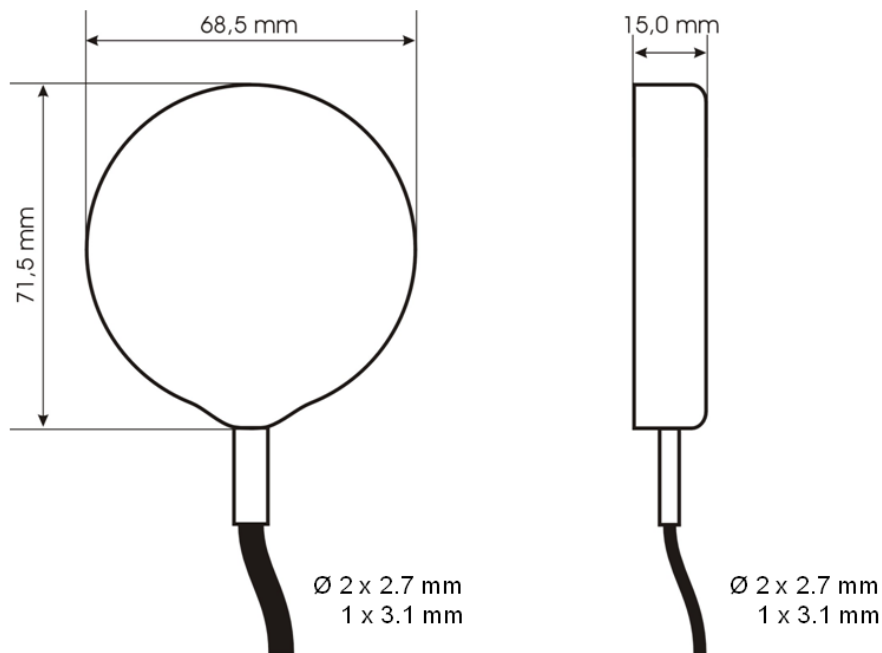
WLAN

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

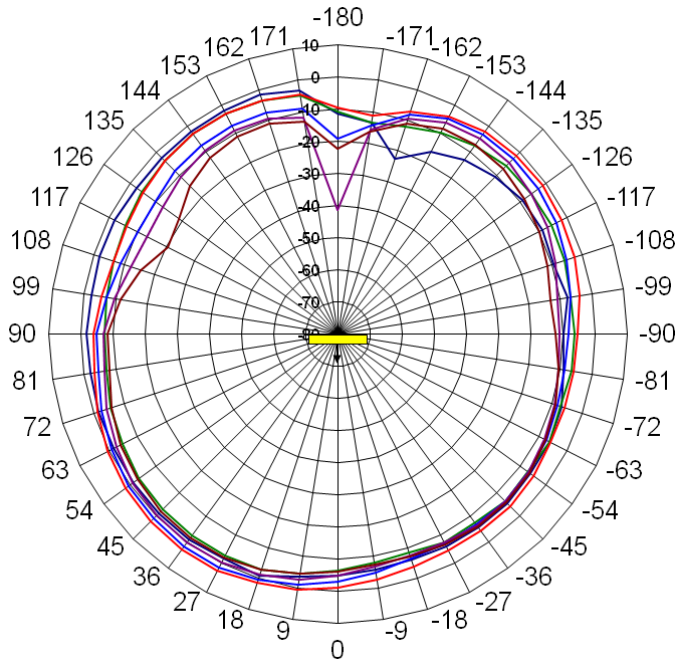
* Measured with 0.6m cable on 30x30cm ground plane

Mechanical Data

| | |
|-----------------------|---|
| Dimensions (ØxH) | ca. 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) ca. 3m connecting cable RG174 low loss with WLAN/SMA(m) Other cablelengths and connectors see ordering example and connector list in Internet |

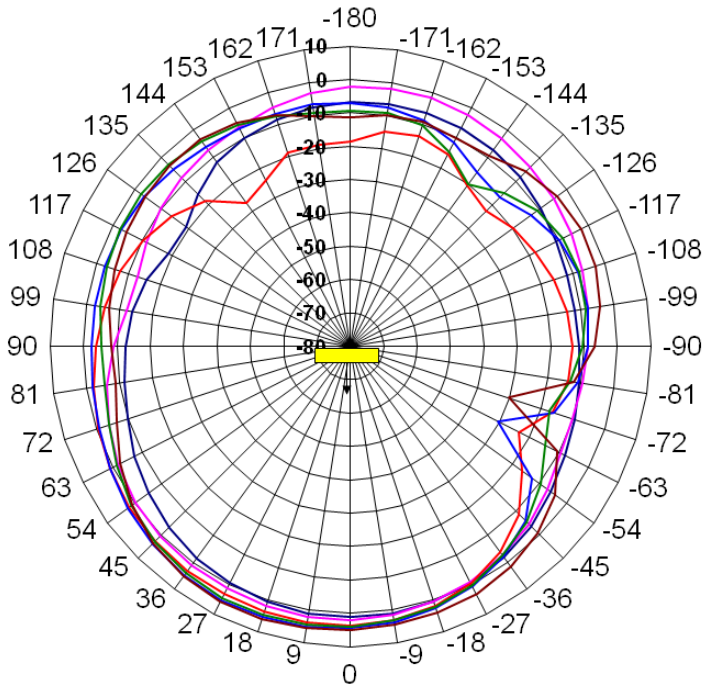


Radiation diagram (typ.)*



GSM 900 MHz
Peak Gain: +1 dBi

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



GSM 1800 MHz
Peak Gain: +3 dBi

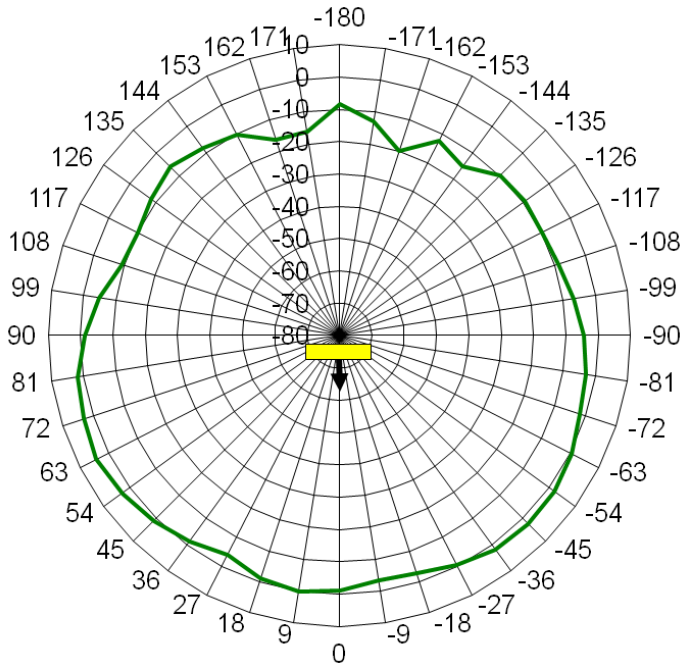
- 1710
- 1788
- 1866
- 1944
- 2022
- 2100

GSM 2100 MHz
Peak Gain: +4 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 | e 13 02 1510 | high gain (A) |
| <input type="checkbox"/> | E-Code | e 13 02 1509 | low gain (L) |
| <input checked="" type="checkbox"/> | E-Code | e 13 03 6371 | low current (V) |

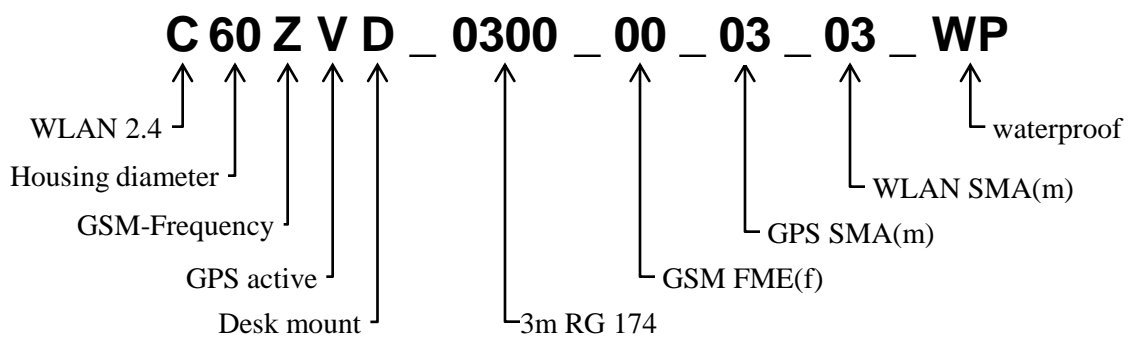
Mounting Instructions

- 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.