

Planar Combination Antenna K60ZAW_WP

GSM 850/900/1800/1900 MHz + UMTS + GPS high gain

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

GSM

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

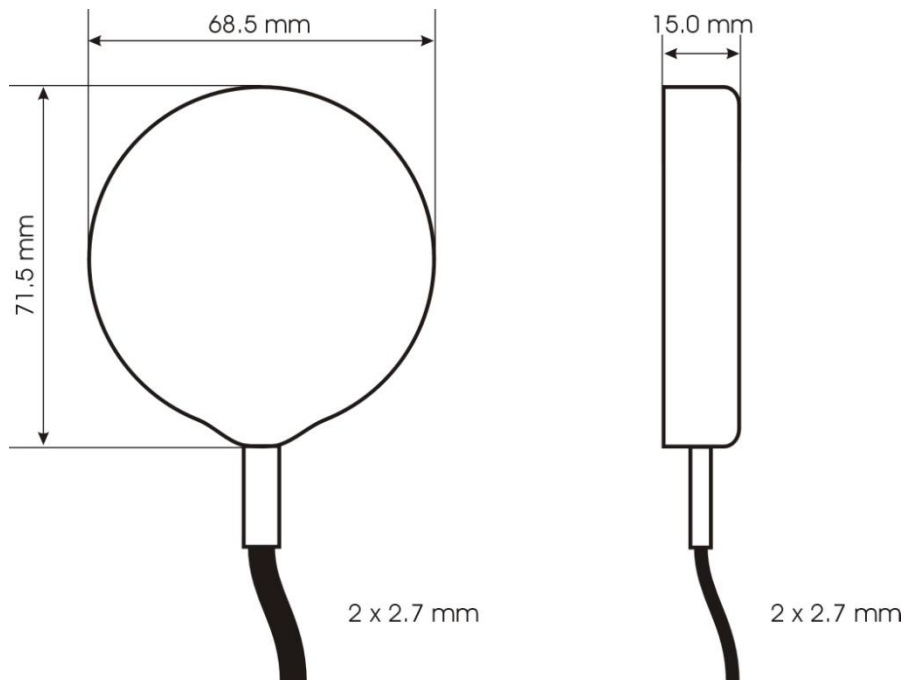
GPS

| | |
|------------------|---------------------|
| Frequency | 1575.42 MHz |
| VSWR | 1.5 typ. |
| Peak Gain | 25 dBi typ. |
| Power Supply | 3V to 5V; 25mA typ. |
| $V_{DD\ max.}$ | +10V _{DC} |
| Input Power max. | +17dBm |
| Current max. | 30mA |

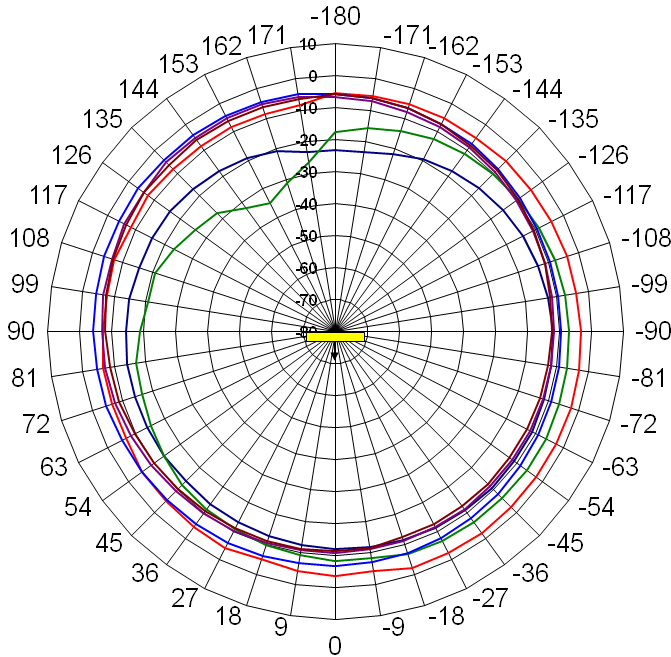
* Measured with 0.6m cable on 30x30cm glass pane

Mechanical Data

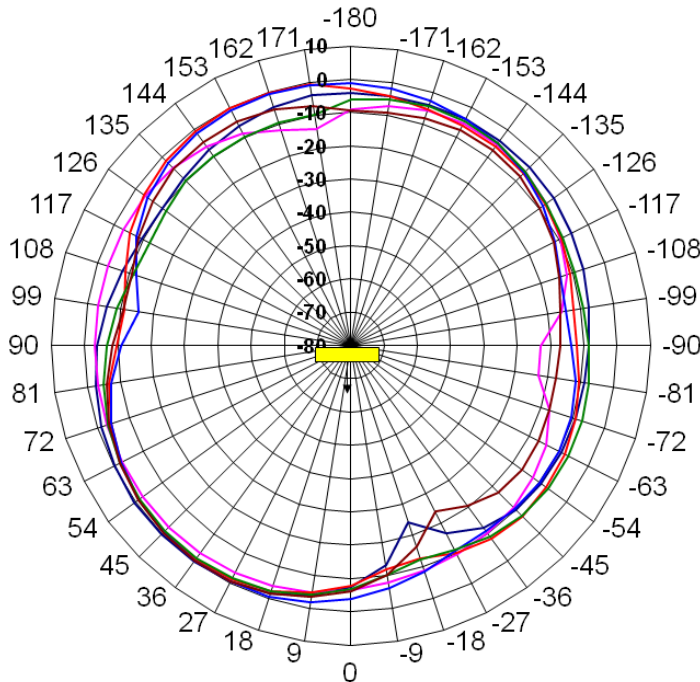
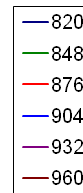
| | |
|-----------------------|--|
| Dimensions (ØxH) | ca. 70 mm x 15 mm |
| Temperature Range | -40°C to +85°C (operating temperature) |
| Connection (Standard) | ca. 3m connecting cable RG174 with GSM/FME(f); GPS/SMA(m) Other cablelengths and connectors see ordering example and connector list in Internet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



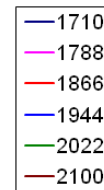
Radiation diagram (typ.)*



GSM 900 MHz
Peak Gain: -1 dBi



GSM 1800 MHz
Peak Gain: +2 dBi



GSM 2100 MHz
Peak Gain: +2 dBi

* Measured with 0.6m cable on 30x30cm glass pane

Accreditation

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

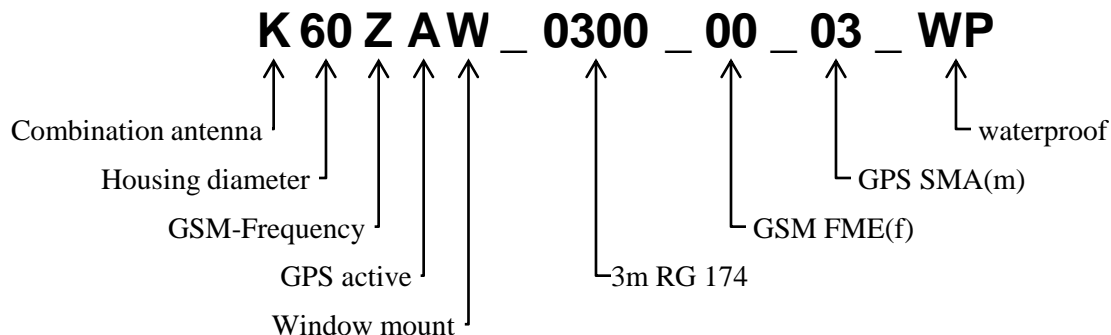
Mounting Instructions

- 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).
- 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.