

## Planar Combination Antenna K70ZYR

GSM 850/900/1800/1900 MHz + UMTS + WLAN 5300 MHz

Roof Mount



- **Waterproof TÜV passed IP69K mounted**
- **Antenna available in black, white and blue other colours on demand**
- **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*          | +5 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)   |

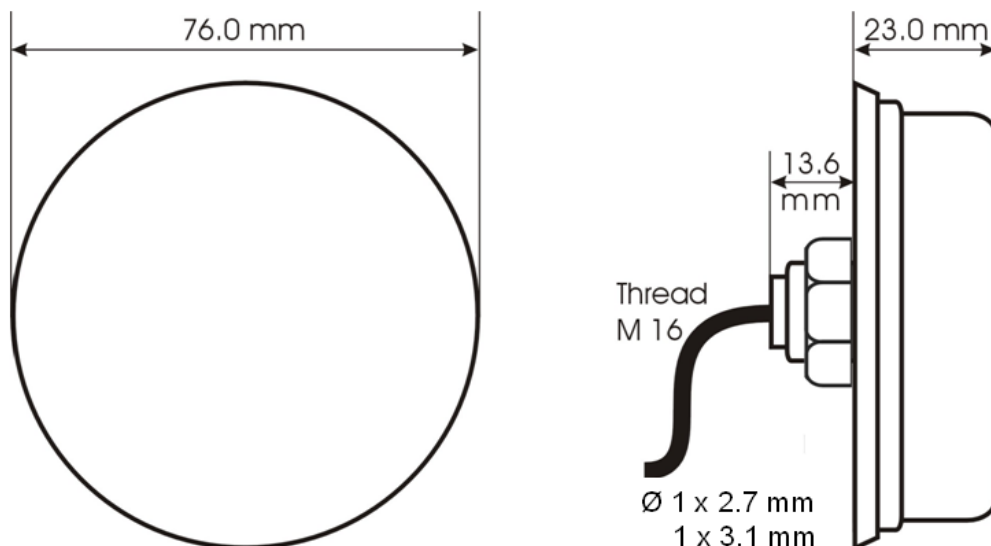
### WLAN

|                 |             |
|-----------------|-------------|
| Frequency Range | 5300 MHz    |
| VSWR*           | < 2.0 typ.  |
| Peak Gain*      | +1 dBi typ. |
| Power max.      | 10 W        |

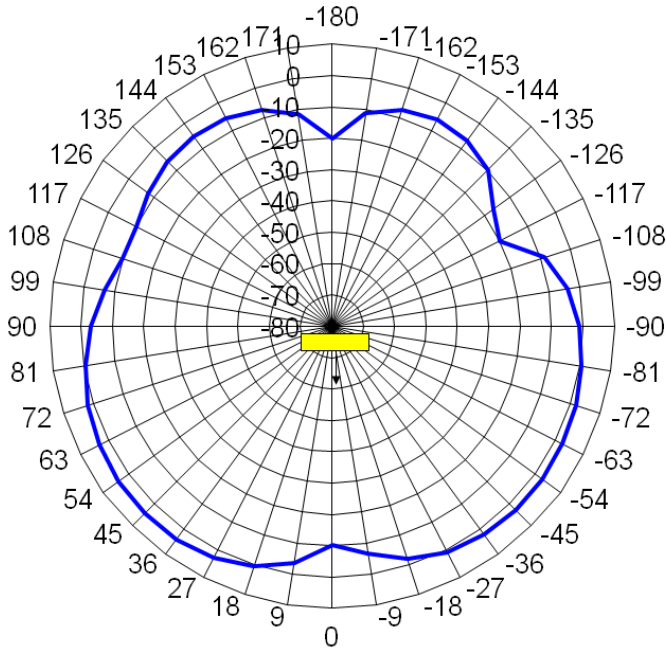
\* Measured with 0.6m cable on 30x30cm ground plane

## Mechanical Data

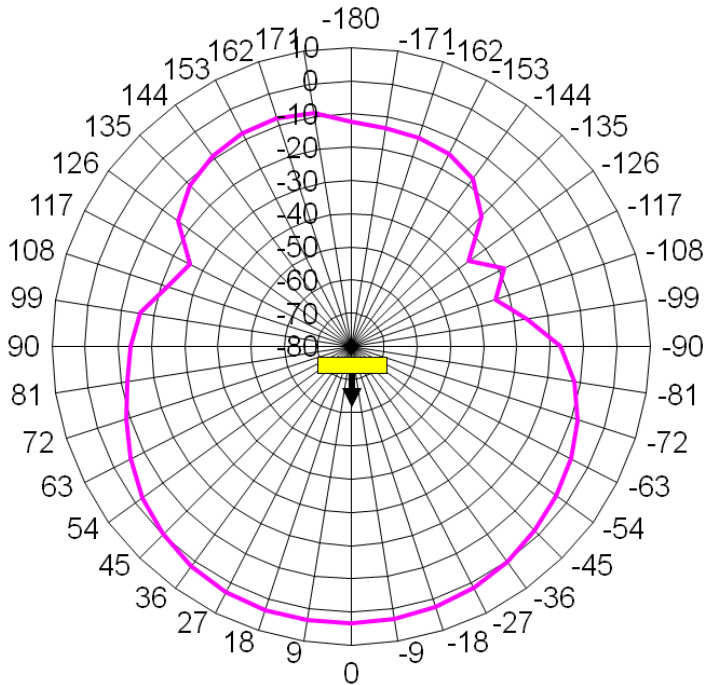
|                       |  |
|-----------------------|--|
| Dimensions (ØxH)      | ca. 76 mm x 23 mm  |
| Temperature Range     | -40°C to +85°C (operating temperature)   |
| Connection (Standard) | ca. 3m connecting cable RG174 with GSM/FME(f);<br>ca. 3m connecting cable RG174 low loss with WLAN/SMA(m)<br>Other cablelengths and connectors see ordering example and connector list in Internet |



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



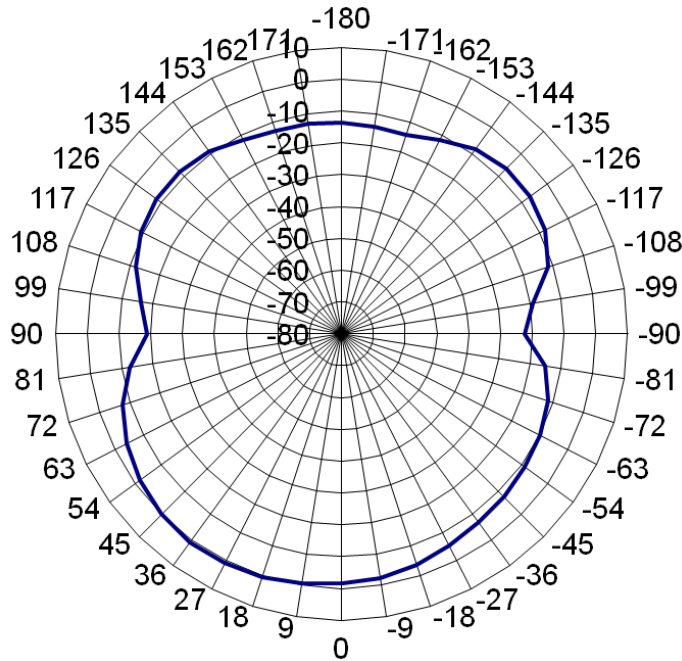
GSM 900 MHz  
Peak Gain: +5 dBi



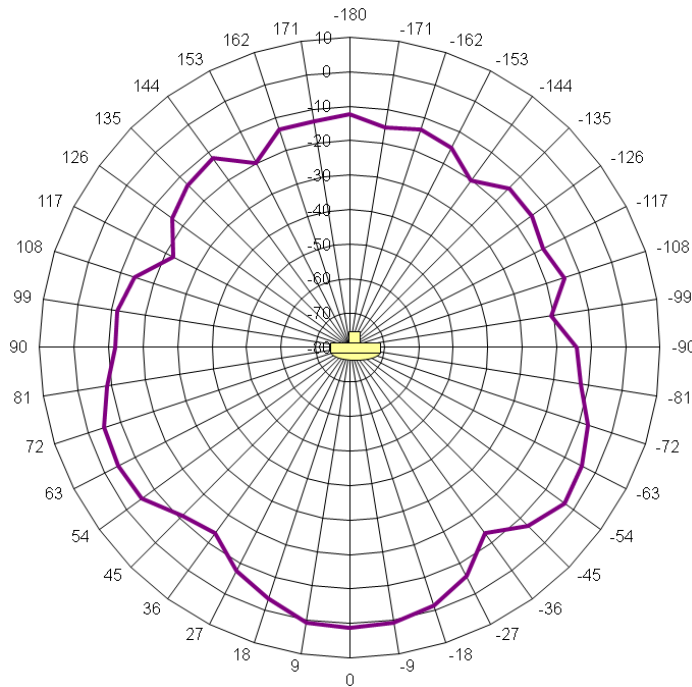
GSM 1800 MHz  
Peak Gain: +3 dBi

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

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



GSM 2100 MHz  
Peak Gain: +1 dBi



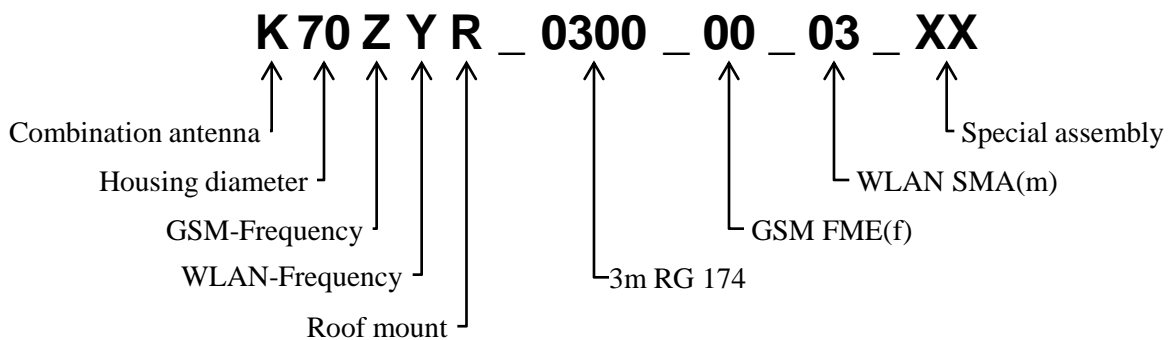
WLAN 5300 MHz  
Peak Gain: +1 dBi

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

## Mounting Instructions

- No extra ground planes are necessary for this antenna (ground plane inside).
- Mountable on all clean, smooth and rust free surfaces.
- Tightening torque on M16 nut is min. 4Nm to max. 6Nm
- Mounting bore hole is Ø 16mm (+2mm/-0mm)
- Alternatively the bottom is available as aluminum diecast with tightening torque 12 Nm to max. 15 Nm (AL).
- Mounting on a separate support possible, if the cable entrance is watertight.
- Antenna available with waterproof cable entrance (PW or AW).

## Ordering example



## Warranty

The lawful warranty conditions apply.