

## Planar Combination Antenna F70CVR

Roof Mount

WLAN 2400/5300 MHz + WLAN 2400 MHz + GPS low current



- **Waterproof TÜV passed IP69K mounted**
- **Antenna available in black, white and blue other colours on demand**
- **Our products are RoHS- and REACH-conform**



## Technical Data

### WLAN

Frequency Range	2400/5300 MHz
VSWR*	< 2.0 typ.
Peak Gain*	0 dBi typ. (2400 MHz WLAN 1) +4 dBi typ. (2400 MHz WLAN 3) +1 dBi typ. (5300 MHz WLAN 3)
Power max.	10 W

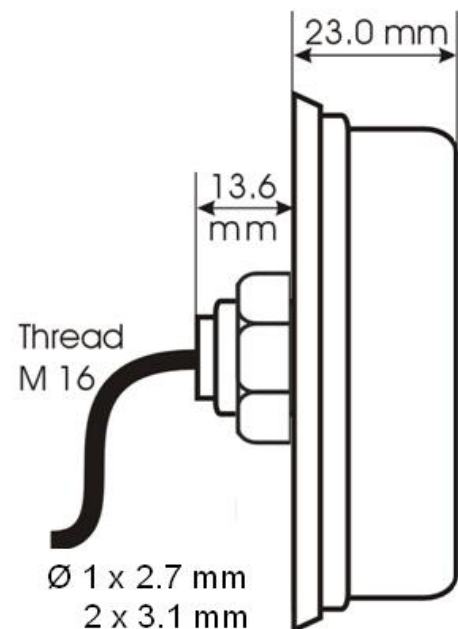
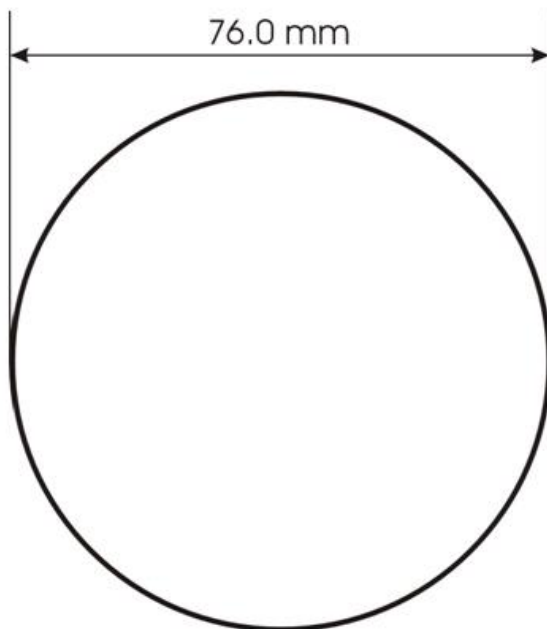
\* Measured with 0.6m cable on 30x30cm glass pane

### GPS

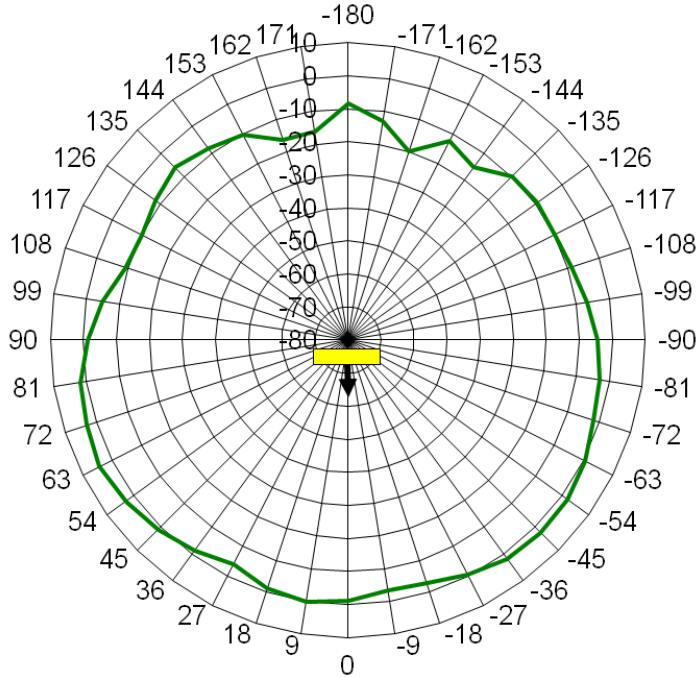
Frequency	1575.42 MHz
VSWR	1.5 typ.
Peak Gain	18 dBi typ.
Power Supply	3V ±10%; 4mA typ.
<hr/> V <sub>DD</sub> max.	4.0V
Input Power max.	+10dBm
Current max.	4.5mA

## Mechanical Data

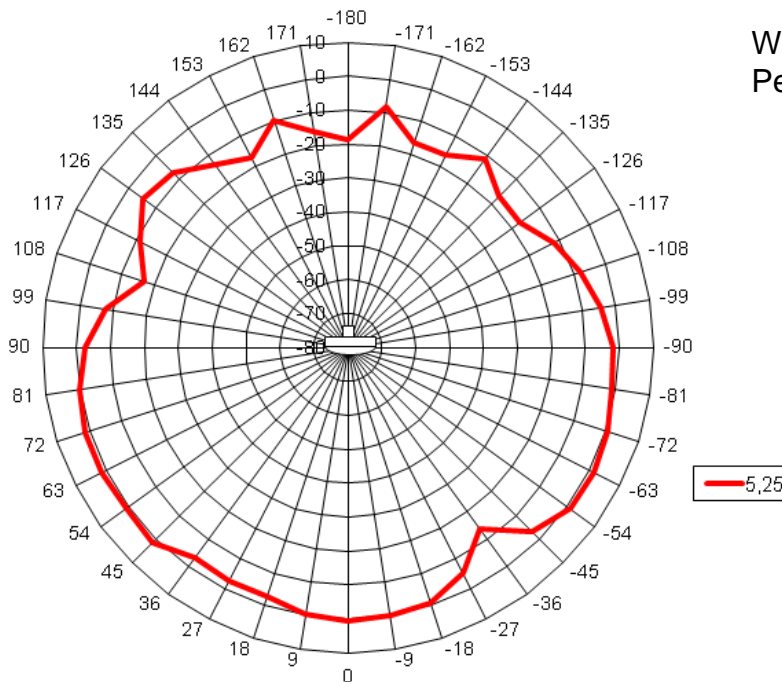
Dimensions (ØxH)	ca. 76 mm x 23 mm
Temperature Range	-40°C to +85°C (operating temperature)
Connection (Standard)	ca. 3m connecting cable RG174 with GPS/SMA(m) ca. 3m connecting cable RG174 low loss with WLAN/SMA(m) Other cablelengths and connectors see ordering example and connector list in Internet



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



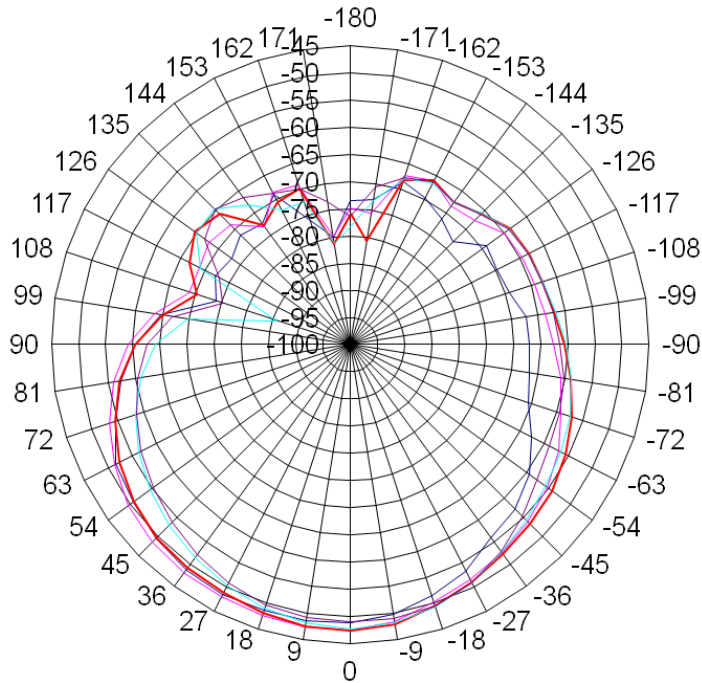
WLAN 3 2400 MHz  
Peak Gain: +4 dBi



WLAN 3 5300 MHz  
Peak Gain: +1 dBi

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

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



WLAN 1 2400 MHz  
Peak Gain: 0 dBi

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

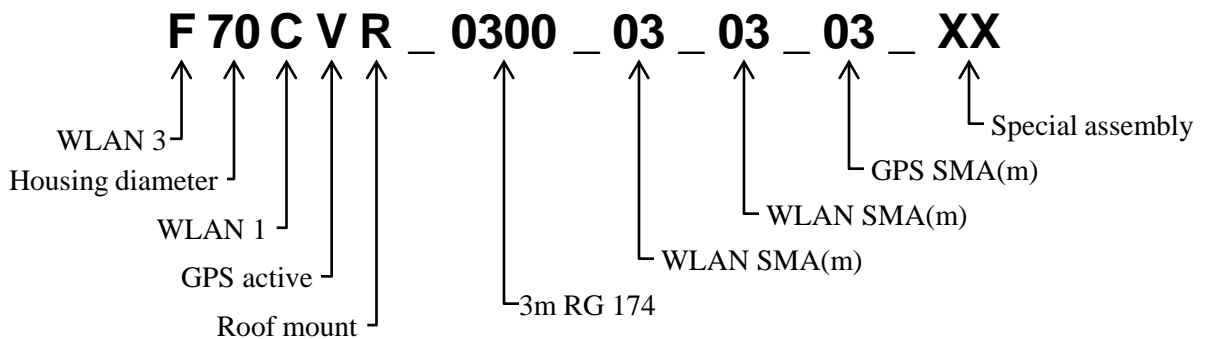
## Accrediation

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

## 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
- Mountening 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 watertide.
- Antenna available with waterproof cable entrance (PW or AW).

## Ordering example



## Warranty

The lawful warranty conditions apply.