

Planar Combination Antenna F60ZVM

Magnet Mount**WLAN 2400/5300 MHz + GSM 850/900/1800/1900 MHz + UMTS
+ GPS low current**

- **Including 868 MHz – services and DECT**
- **Magnet mounting antenna waterproof IP68**
- **3 Neodym magnets for optimal fixing**
- **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

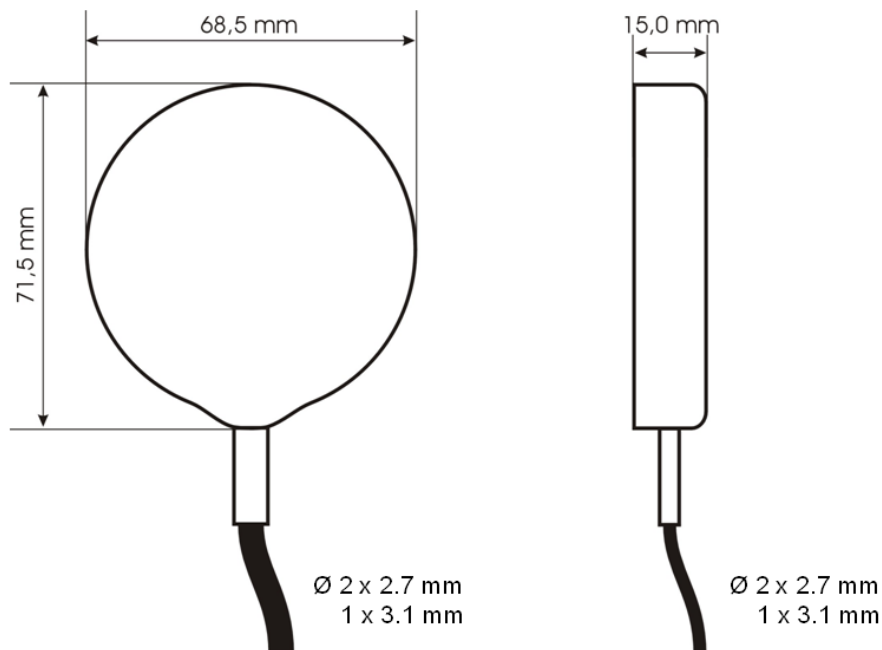
WLAN

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

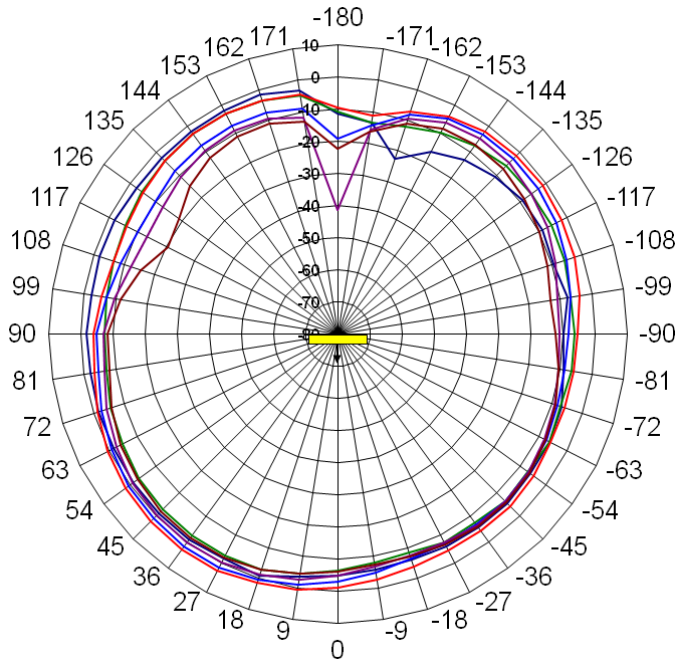
* Measured with 0.6m cable on 30x30cm ground plane

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

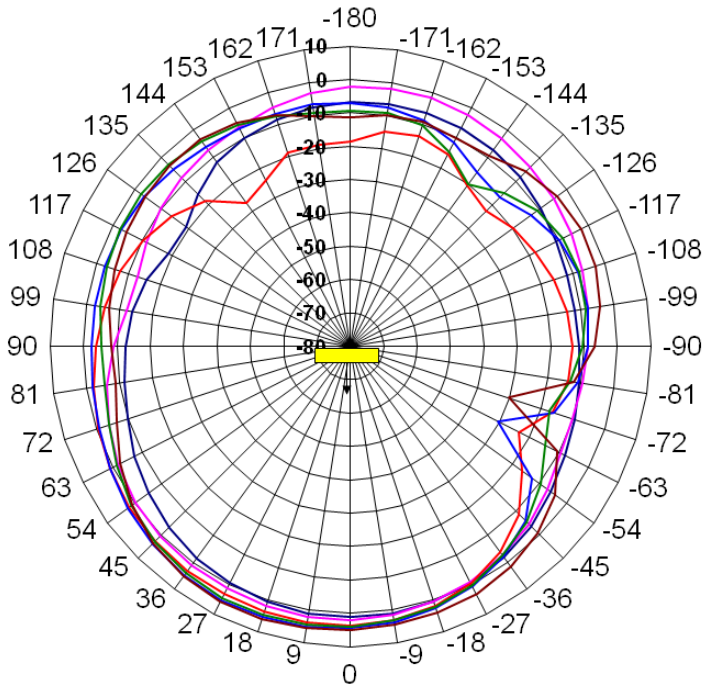


Radiation diagram (typ.)*



GSM 900 MHz
Peak Gain: +1 dBi

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



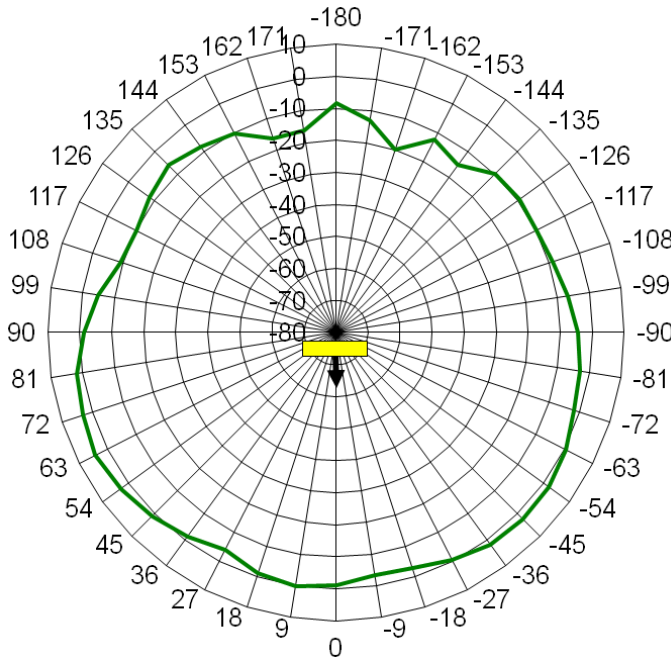
GSM 1800 MHz
Peak Gain: +3 dBi

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

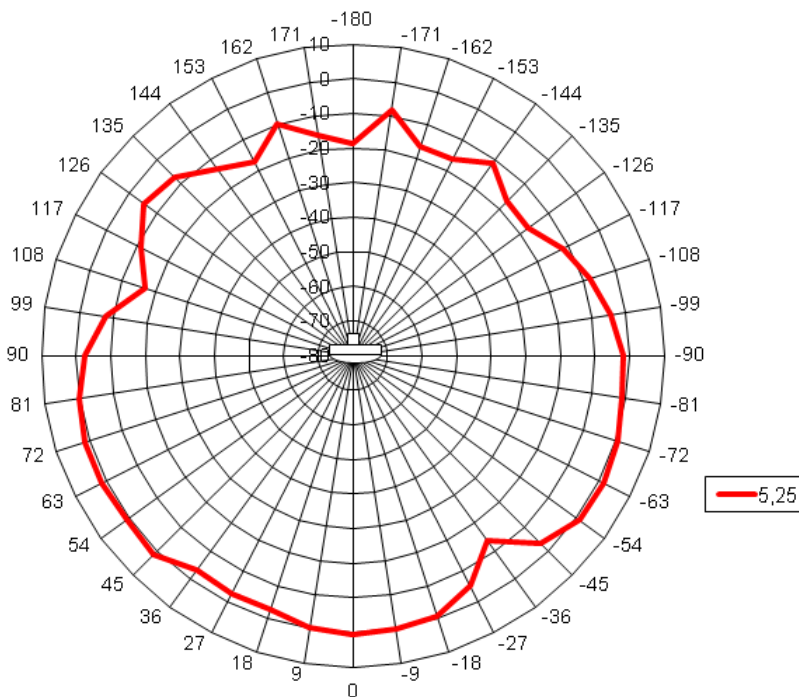
GSM 2100 MHz
Peak Gain: +4 dBi

* Measured with 0.6m cable on 30x30cm ground plane

Radiation diagram (typ.)*



WLAN 2400 MHz
Peak Gain: +4 dBi



WLAN 5300 MHz
Peak Gain: +1 dBi

* Measured with 0.6m cable on 30x30cm ground plane

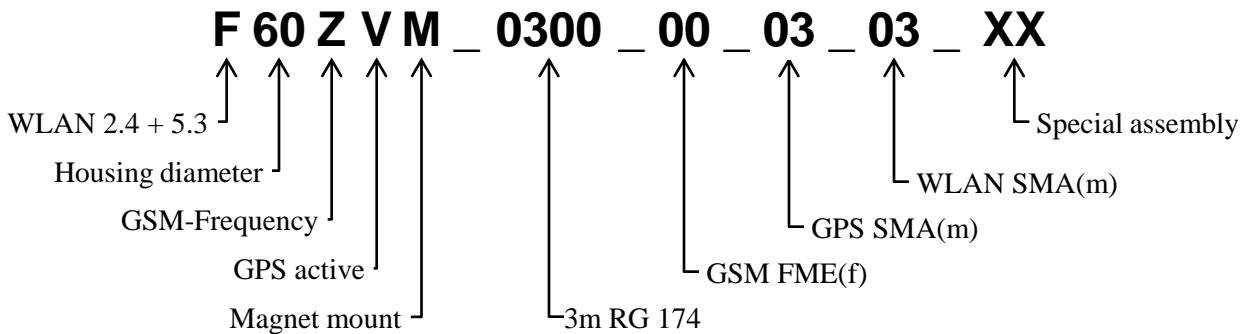
Accreditation

<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, stainless and magnetisable surfaces.

Ordering example



Warranty

The lawful warranty conditions apply.