



## Datenblatt Datasheet

### Low Profile Antenne Low Profile Antenna

### GPS 18 90 LP/P/...

Erz.-Nr. / Ord. code

### 920 061-...

#### GPS / CELLULAR

- Empfangsantenne für GPS-Satellitensignale zur Verarbeitung in Navigationssystemen, Flottenmanagementsysteme, Verkehrsführungssysteme und Fahrzeugortung.  
In Kombination mit flacher Cellular-Telefonantenne
  - geringe Bauhöhe ca. 19 mm / 0.7 In.
  - Abdeckung europäischer und US-amerikanischer Cellular-Telefon-Frequenzen
  - Montage auf unterschiedlichsten Oberflächen (z.B. Glas, Kunststoff, Metall ...)
- *Reception antenna for GPS satellite signals for processing in navigation systems, fleet management systems, traffic guidance systems and vehicle location.  
In combination with low profile cellular phone antenna.*
  - *Low body height ca. 19 mm / 0.7 In.*
  - *Coverage of European and American cellular phone frequencies*
  - *Mounting on several surfaces (e.g. glass, plastics, metal ...)*



#### Änderungen vorbehalten / Subject to alterations

#### Technische Daten / Technical data

Abmessungen / Dimensions (ohne Strahler, without rod)	100 mm x 66 mm x 19 mm / 3.9 x 2.6 x 0.7 In.	
Gewicht / Weight	ca. 151 g / 0.35 oz.	
Temperaturbereich / Temperature range	-30 – +85°C / -22 – +185 °F	
Schutzklasse / Protection class	IP66 (acc. IEC 60529)	
<b>GPS</b>		
Frequenzbereich / Frequency range	1,57542 GHz ± 1.023 MHz, (L1-band)	
Impedanz / Impedance	50 Ohm	
VSWR	≤ 2,0	
Gewinn / Gain	2 dBic	
Verstärkung / Amplification	27 ± 3 dB	
Rauschmaß / Noise figure (50 Ohm)	≤ 2,5 dB	
Betriebsspannung / Voltage supply	3 – 5,5 VDC (ferngespeist, remote fed)	
Stromaufnahme / Current consumption	≤ 25 mA bei/at 5 V	
<b>Cellular</b>		
Frequenzbereich / Frequency range	AMPS:	824 – 894 MHz
	GSM 900:	880 – 960 MHz
	GSM 1800:	1710 – 1880 MHz
	GSM 1900:	1850 – 1990 MHz
	UMTS:	1920 – 2170 MHz
Impedanz / Impedance	50 Ohm	
VSWR	≤ 2,0	
Gewinn / Gain	0 dBi	
Belastbarkeit / Load capacity	max.	10 W gepulst, pulsed acc. GSM standard
<b>Kabel und Anschluss / Cable and Connector</b>		
Kabel / Cable *	RG 174 / 3000 +30 mm / 118.11+1.2 In.	
Anschluss / Connector *	920 061-001:	GPS: SMB female Cellular: FME female
	920 061-002:	GPS: SMA male Cellular: FME female:
	920 061-005:	GPS: FAKRA female, Code C Cellular: FAKRA female, Code D

\* andere Ausführungen auf Anfrage / other configurations on request



## Datenblatt *Datasheet*

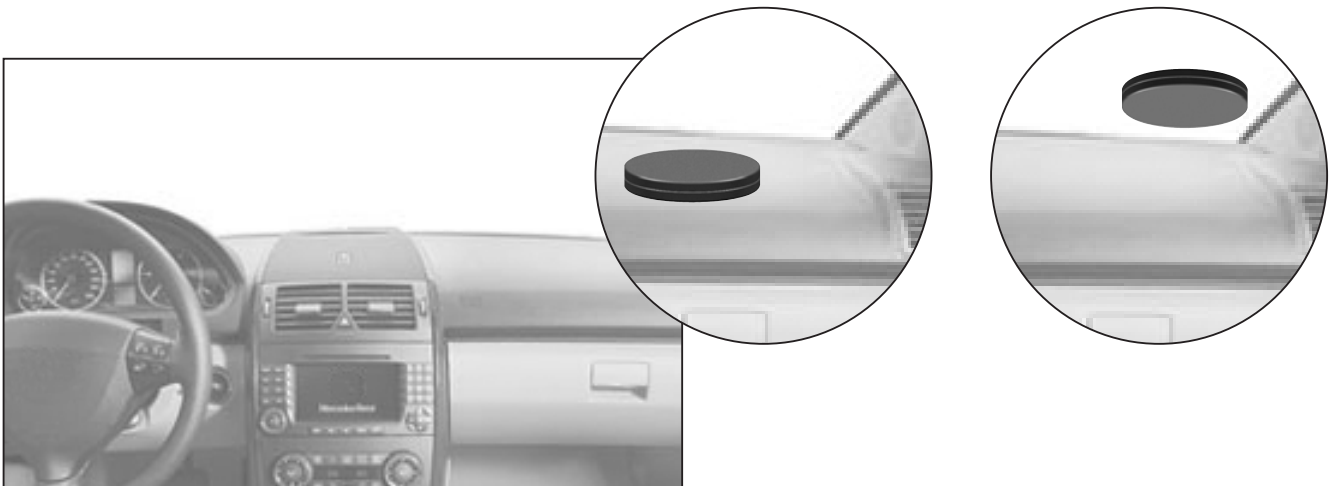
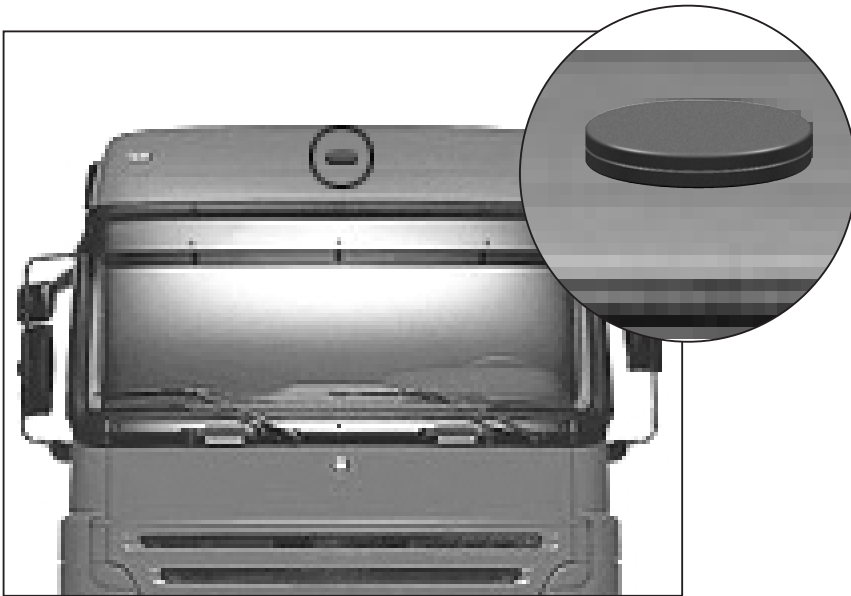
### GPS 18 90 LP/P/...

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Änderungen vorbehalten / *Subject to alterations*

### Montage / Installation





# Datenblatt *Datasheet*

Änderungen vorbehalten / *Subject to alterations*

**GPS 18 90 LP/P/...**

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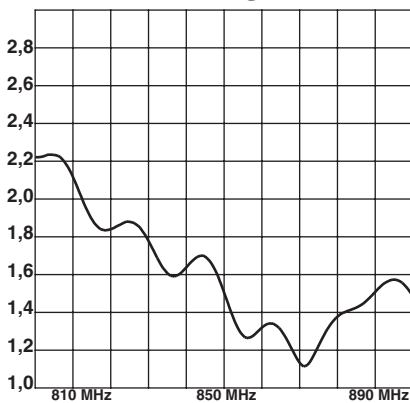
**920 061-...**

**Montage auf Metallplatte /  
*Installation on groundplane***

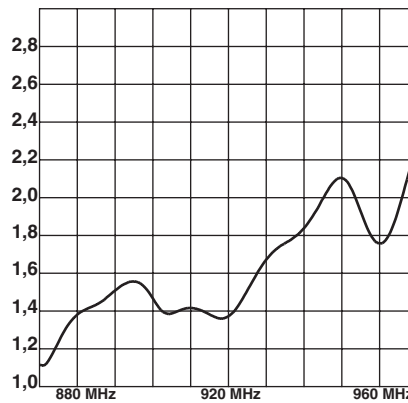
## **Antennendiagramme *Antenna diagrams***

Typisches VSWR / *Typical VSWR*

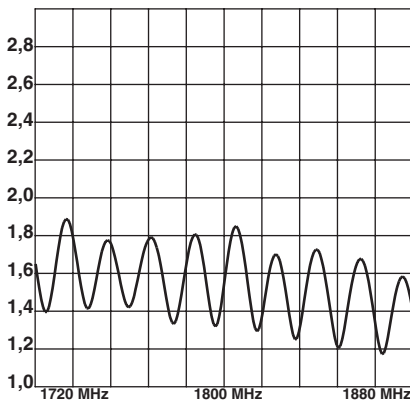
**AMPS**



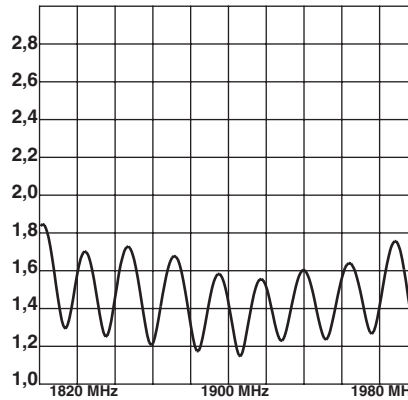
**GSM 900**



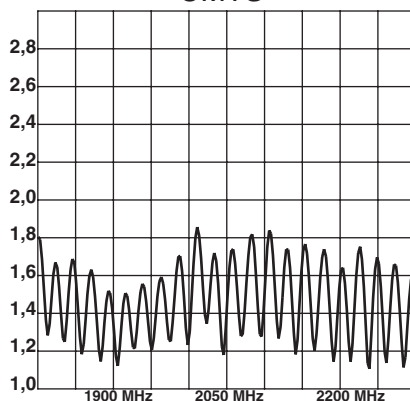
**GSM 1800**



**GSM 1900**



**UMTS**





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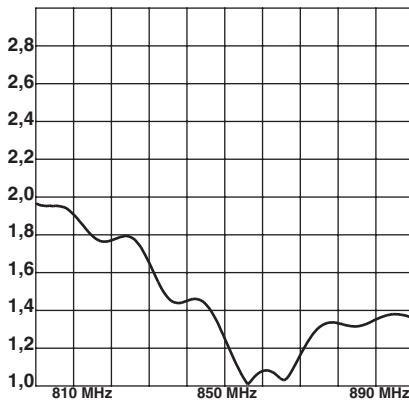
**Montage Kleben auf Glas /  
Installation stick on glass**

### 920 061-...

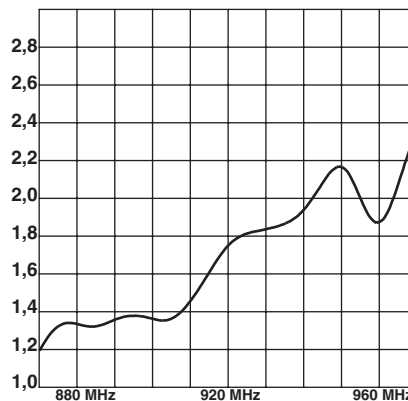
### Antennendiagramme *Antenna diagrams*

Typisches VSWR / *Typical VSWR*

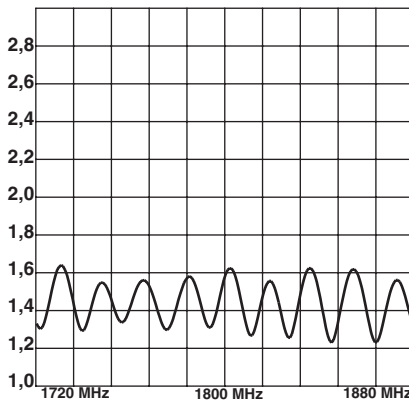
#### AMPS



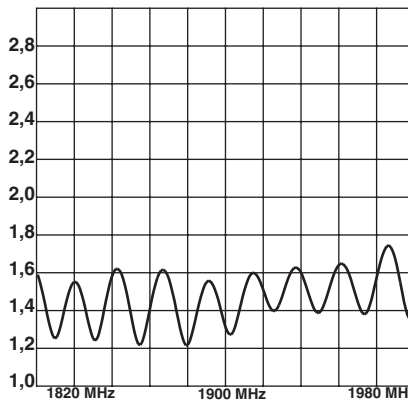
#### GSM 900



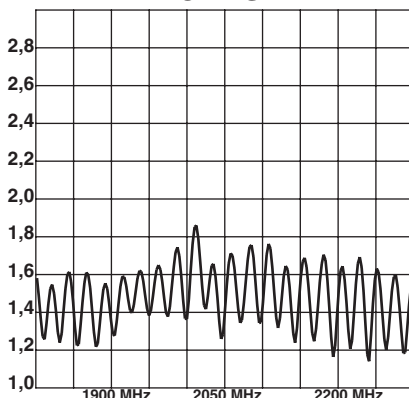
#### GSM 1800



#### GSM 1900



#### UMTS





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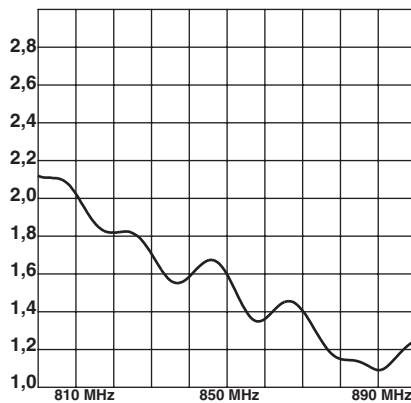
**Montage zwischen 2 Metallstreben /  
Installation between 2 metal bars**

### 920 061-...

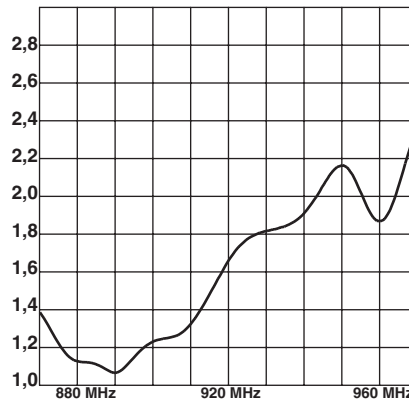
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Typisches VSWR / *Typical VSWR*

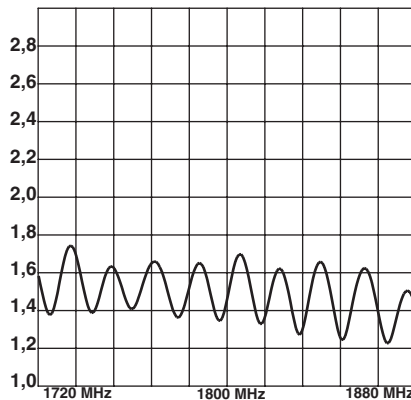
#### AMPS



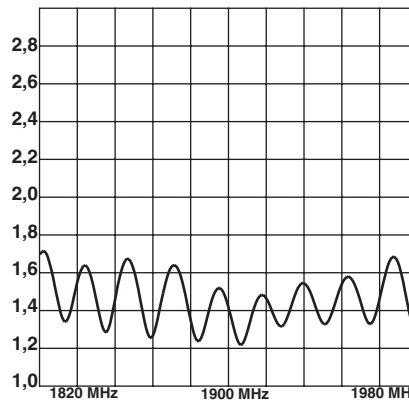
#### GSM 900



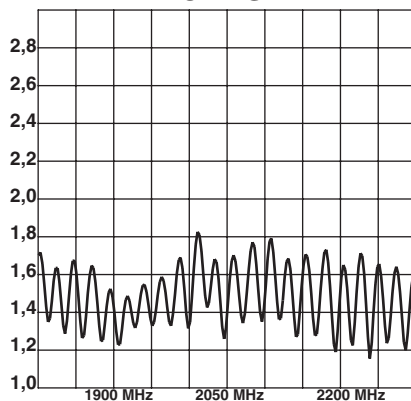
#### GSM 1800



#### GSM 1900



#### UMTS



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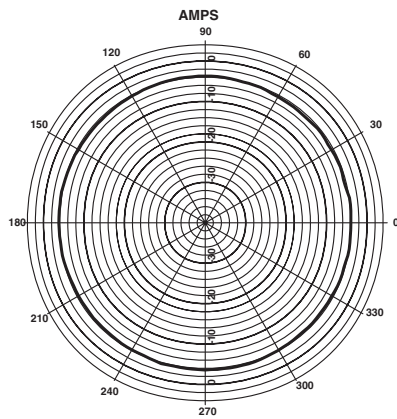
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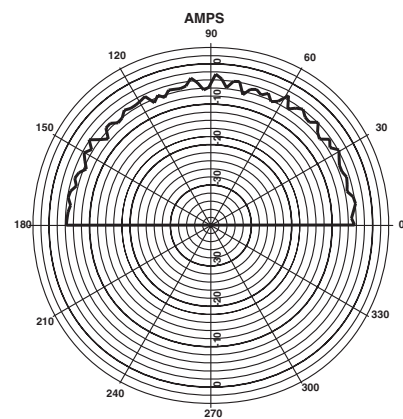
### Antennendiagramme Antenna diagrams

Typisches Strahlungsdiagramm / *Typical radiation pattern*

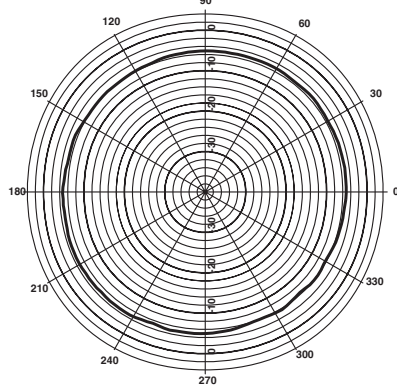
horizontal / Azimuth



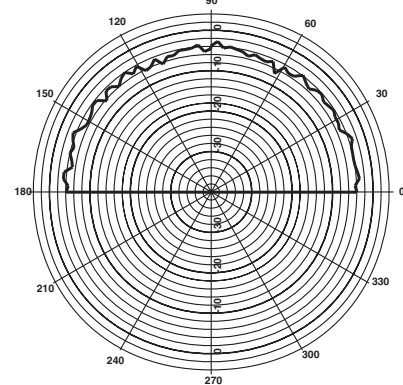
vertikal / Elevation



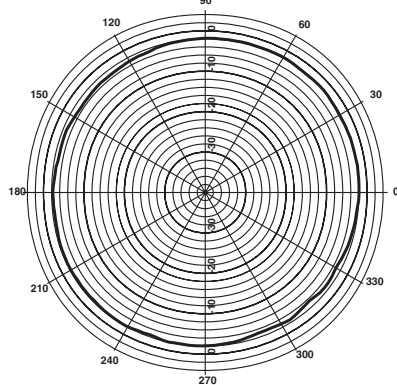
GSM 900



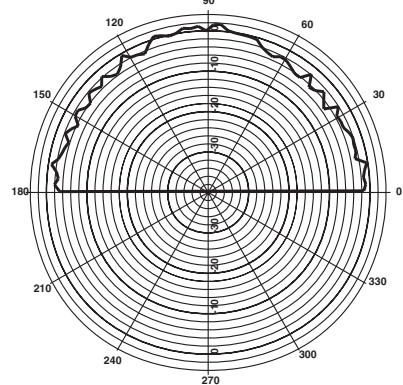
GSM 900



GSM 1800



GSM 1800





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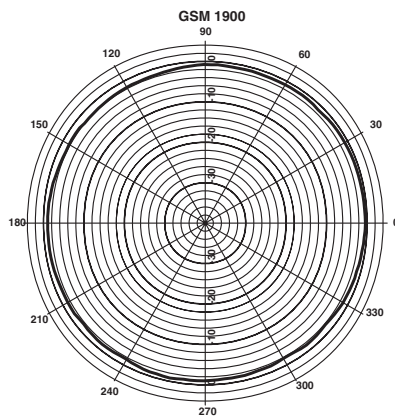
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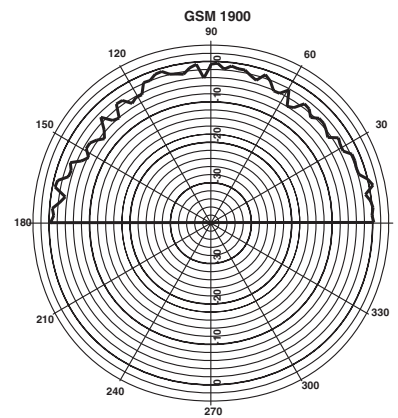
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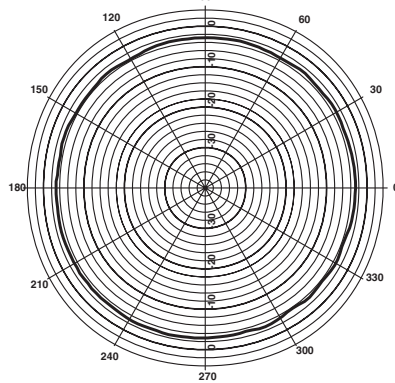
horizontal / Azimuth



vertikal / Elevation



UMTS



UMTS

