

Datenblatt / Datasheet

Low Profile Klebe-Antenne
Low Profile Patch Antenna

GLONASS 1890 LP/LC/P/
FAKRA 5.0/...3.0

Erz-Nr. / Ord. code

602 440-003/...-004

GLONASS / GPS / CELLULAR

- Empfangsantenne für Satellitensignale (GLONASS und GPS) zur Verarbeitung in Navigationssystemen, Flottenmanagementsysteme, Verkehrsführungssysteme und Fahrzeugortung. In Kombination mit flacher Cellular-Telefonantenne
- geringe Bauhöhe ca. 20 mm
- Abdeckung europäischer und US-amerikanischer Cellular-Telefon-Frequenzen
- Montage auf unterschiedlichsten Oberflächen (z.B. Glas, Kunststoff, Metall ...)

- Reception antenna for satellite signals (GLONASS and GPS) 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. 20mm / 0.79 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) | 102 mm x 66 mm x 20 mm | |
| Gewicht / Weight | -003: | 219 g |
| | -004: | 165 g |
| Temperaturbereich / Temperature range | -40 - +85°C | |
| Schutzklasse / Protection class | IP66 (acc. IEC 60529) | |
| GLONASS / GPS | | |
| Frequenzbereich / Frequency range | GLONASS: | 1602,0 - 1614,94 MHz |
| | GPS: | 1,57542 GHz ± 1,023 MHz, (L1-band) |
| Impedanz / Impedance | 50 Ohm | |
| VSWR | ≤ 2,0 | |
| Gewinn / Gain | 1 dBic ¹⁾ | |
| Verstärkung / Amplification | 27 ± 1 dB | |
| Rauschmaß / Noise figure (50 Ohm) | ≤ 1,4 dB | |
| Betriebsspannung / Voltage supply | 2,7 - 5,5 VDC (ferngespeist, remotely fed) | |
| Stromaufnahme / Current consumption | typ. | 13 mA bei/at 5 VDC |
| Kabeltyp / Cable type | RG 174 | |
| Kabellänge / Cable length | -003: | 5000 ±50 mm |
| | -004: | 3000 ±30 mm |
| Anschluss / Connector | FAKRA female, Code C, blue | |
| CELLULAR | | |
| Frequenzbereich / Frequency range | GSM 850: | 824 - 894 MHz |
| | GSM 900: | 880 - 960 MHz |
| | GSM 1800: | 1710 - 1880 MHz |
| | GSM 1900: | 1950 - 1990 MHz |
| | UMTS: | 1920 - 2170 MHz |
| Impedanz / Impedance | 50 Ohm | |
| VSWR | ≤ 2,0 | |
| Gewinn / Gain | 0 dB ²⁾ | |
| Belastbarkeit / Load capacity | max. | 10 W gepulst, pulsed acc. GSM standard |
| Diagnose / Diagnostic Resistor | 10 kOhm | |
| Kabeltyp / Cable type | RG 174 | |
| Kabellänge / Cable length | -003: | 5000 ±50 mm |
| | -004: | 3000 ±30 mm |
| Anschluss / Connector | FAKRA female, Code D, bordeaux | |

¹⁾ dBic: gemessen gegenüber Isotropen-Strahler, zirkulare Polarisation / referenced to an isotropic radiator, circular polarization

²⁾ dBi: gemessen gegenüber Isotropen-Strahler / referenced to an isotropic radiator

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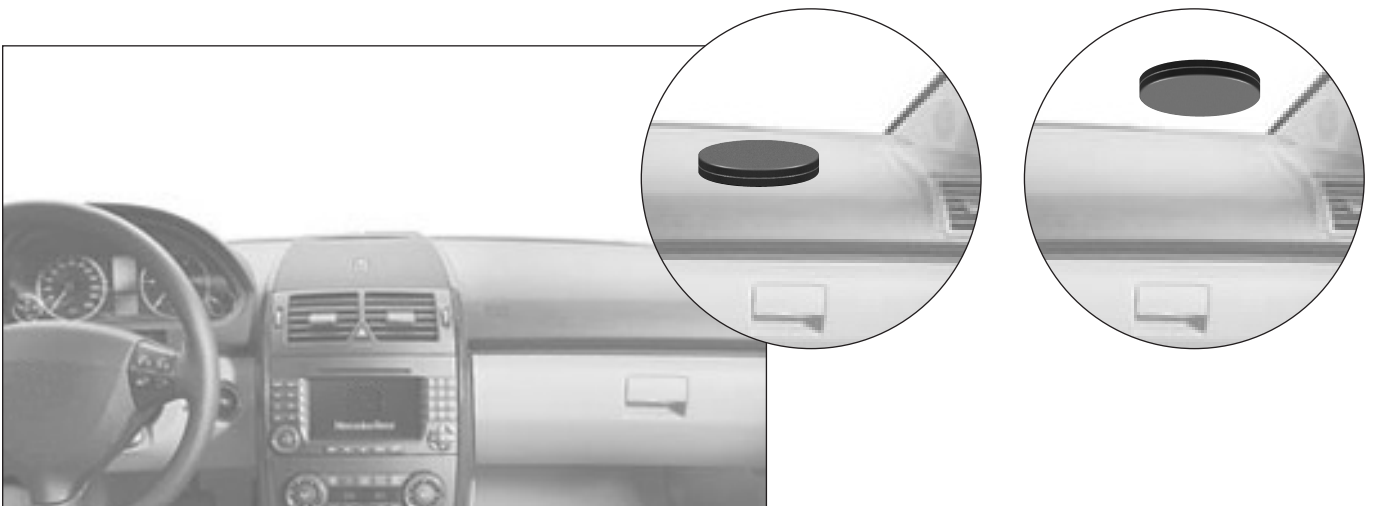
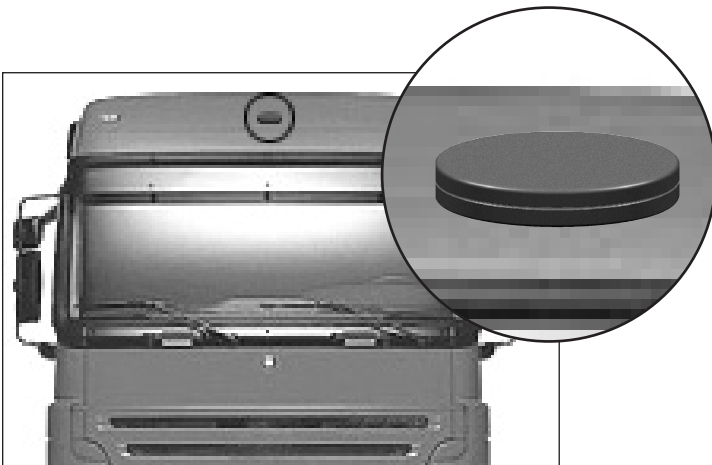
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Montage / Installation



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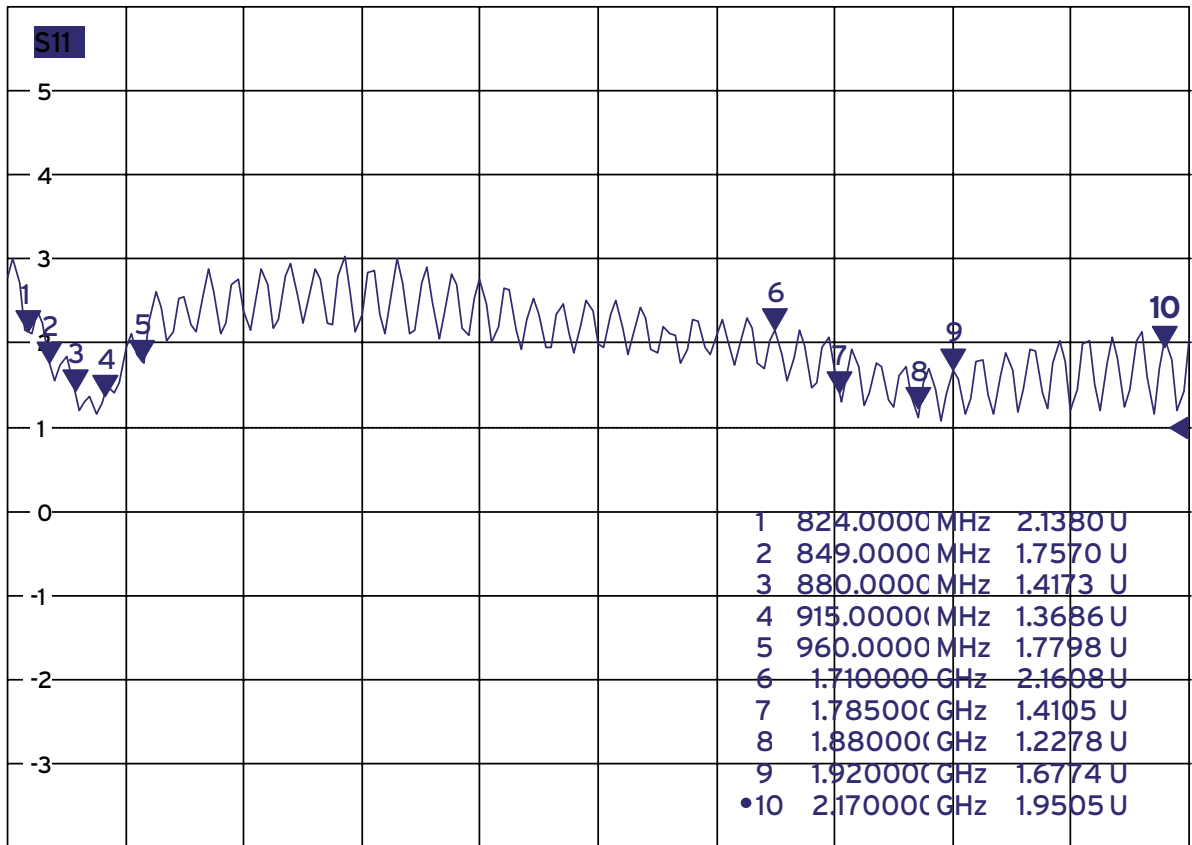
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**Montage auf Metallplatte/
 Installation on groundplane**

**Antennendiagramme
 Antenna diagrams**

Typ. VSWR / Typ. VSWR

Trc1 **S11** SWR 1 U / Ref1 U Cal 1



Ch1 Start 800 MHz:

Pwr 0 dBm

Stop 2.2 GHz

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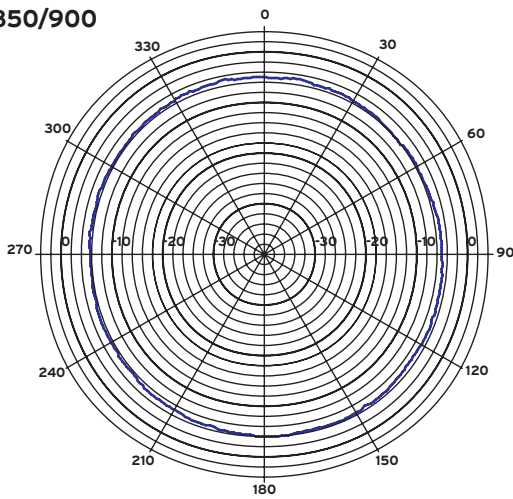
Antennendiagramme
Antenna diagrams

Typisches Strahlungsdiagramm / Typical radiation pattern

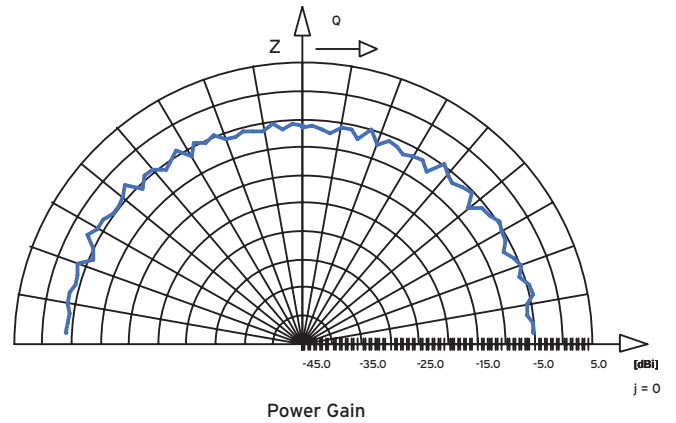
horizontal / Azimuth

vertikal / Elevation

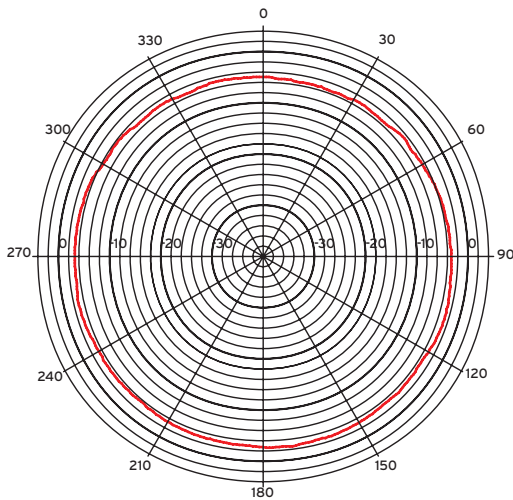
GSM 850/900



GSM 850/900



GSM 1800/UMTS



GSM 1800/UMTS

