


OmPlecs®-TOP 200 AMR 900-B -2-

- Bahnantenne / Train Antenna -



GSM-R - GSM 1800 – UMTS

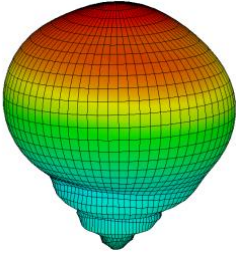
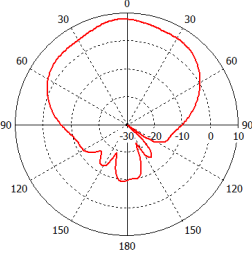
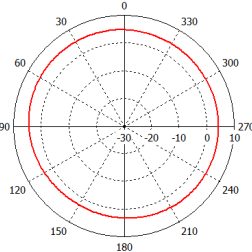
100-58-10-01.2

Verwendungszweck	Multiband-Bahnantenne mit Zertifizierung / Zulassung nach Bahnnorm EN 50155 zur Montage auf Schienen- und Kraftfahrzeugen	
Purpose	Multiband-Train Antenna with certification / approval according to train standard EN 50155 for mounting on trains and vehicles	

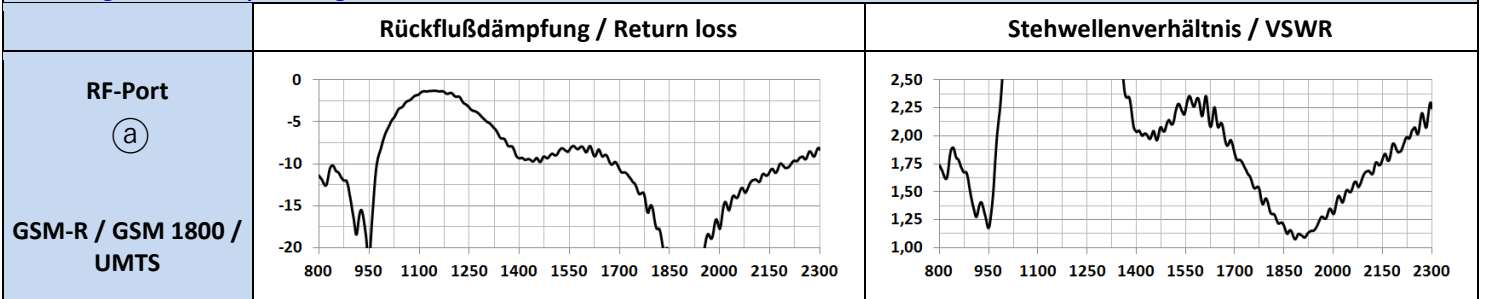
Technical data / Technische Daten

RF-Port	(a)
Spectrum	GSM-R / GSM 1800 / UMTS
Frequency [MHz]	873 - 960 1710 – 2170
Polarization	vertical
Pattern	omnidirectional
Gain	8 dBi (GSM-R) 6,5 dBi (GSM 1800, UMTS)
Average gain*	3,5 dBi typ.
Efficiency	92 - 94 %
VSWR	≤ 1,5 typ. (GSM-R) ≤ 1,8 typ. (GSM 1800, UMTS)
Impedance	50 Ω
Antenna type	Ring-resonator
Max. Power	50 W
RF-Connection	N(f)
Ground-plane	integrated

Radiation diagrams / Richtcharakteristiken

RF-Port	(a)
3D-Pattern	
2D-Pattern (vertikal)	
2D-Pattern (horizontal)	

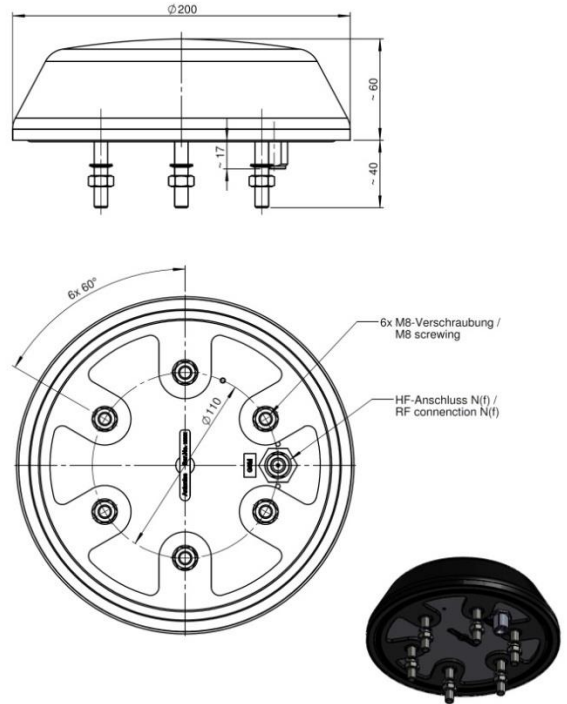
Matching curves / Anpassungskurven



Mechanical properties / Mechanische Eigenschaften

Size	Mounting	Color
D: 200 mm H: 60 mm	6 bolts on pitch circle 110 mm, M8 x 40 mm, 60° Torque: 12 Nm	Black or optional all RAL types
Weight	Proof of Voltage	Temp. range
ca. 1.500 g	25 kV AC / 3 kV DC	-60°C to +80°C
Degree of Protection		
Plastic case UV-resistance, waterproof, IPX9k		
Conformity / Konformität		
EN 50155, EN 50122, EN 50124, IEC 60068, IEC 61373, ISO 20653, ISO 9227, EN 45545-2, DIN 5510-2, NF F 16-102 2014/30/EU; 2006/28/EC; 2002/95/EC		
Drilling pattern	BB-200.074(a)	
Drilling template	MO-200.074(a)	
Article number	100-58-10-01.2	
Accessories	-	

3D Overview / 3D Übersicht



Es gilt ausschließlich unsere [Montageanleitung](#).**

It applies to our [installation instruction](#) exclusively.**



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The above data were generated using standard test procedures on a specimen from the series production on a 1.0 x 1.0 m ground plane made from aluminum. The results are therefore regarded as a general reference for material properties under optimal conditions, not as a specification data for alternative conditions, especially smaller ground planes. The recommended dimensions of the ground plane can be taken from the installation instruction. The statements made to the radiation diagram represent the typical radiating / receiving behavior for a specific frequency for the antenna. Radiation patterns of the other frequencies can be provided on request.

Unless expressly otherwise agreed, no guarantee regarding the suitability of the material for a particular application can be granted. It is up to the buyer to adequately consider whether the material is suitable for his purposes, and to assume the entire risk of the use of the material.

Despite all the care taken in the preparation of this document, some information may have changed. A liability or guarantee for the topicality, correctness and completeness of the information provided cannot therefore be accepted. Furthermore, the Antonics-ICP GmbH reserves the right to change or supplement the information provided. No liability is accepted for any errors.

*The Average gain is a specific not standardized Antonics declaration of antenna gain. This value is measured at several points in the area of omnidirectional radiation and serves as harmonization of the gain declaration for the omnidirectional radiation plane. All other declarations of gain refer to the IEEE Standard Definitions of Terms for Antennas 145-1993.

**In case of incorrect mounting, the warranty is excluded. Regarding entirely to Antonics-ICP [General Terms and Conditions](#), which we send to you on request.

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