

OmPlecs®-TOP 200 AMR MF-04 -5- MIMO

- Bahnantenne / Train Antenna -

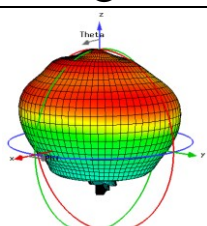
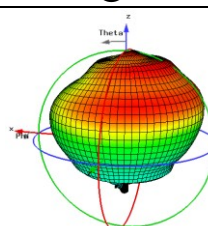
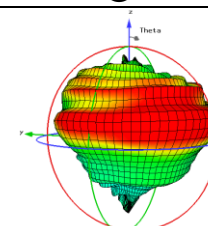
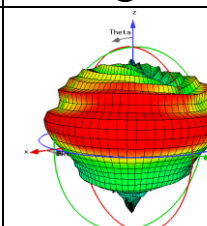
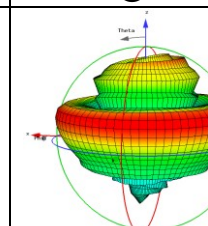
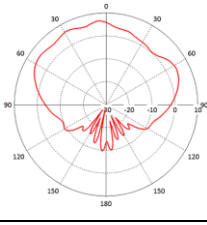
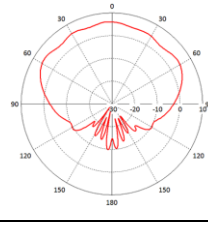
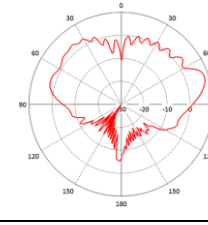
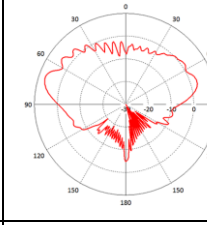
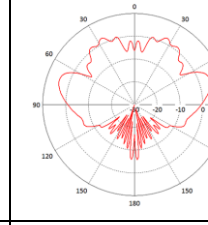
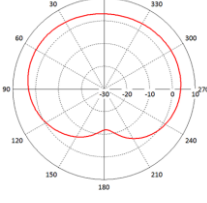
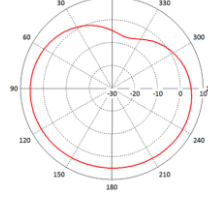
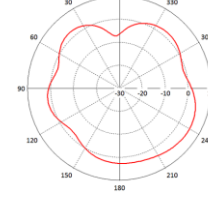
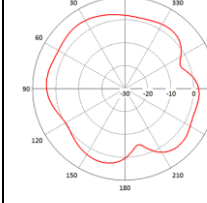
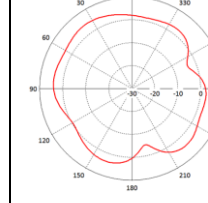


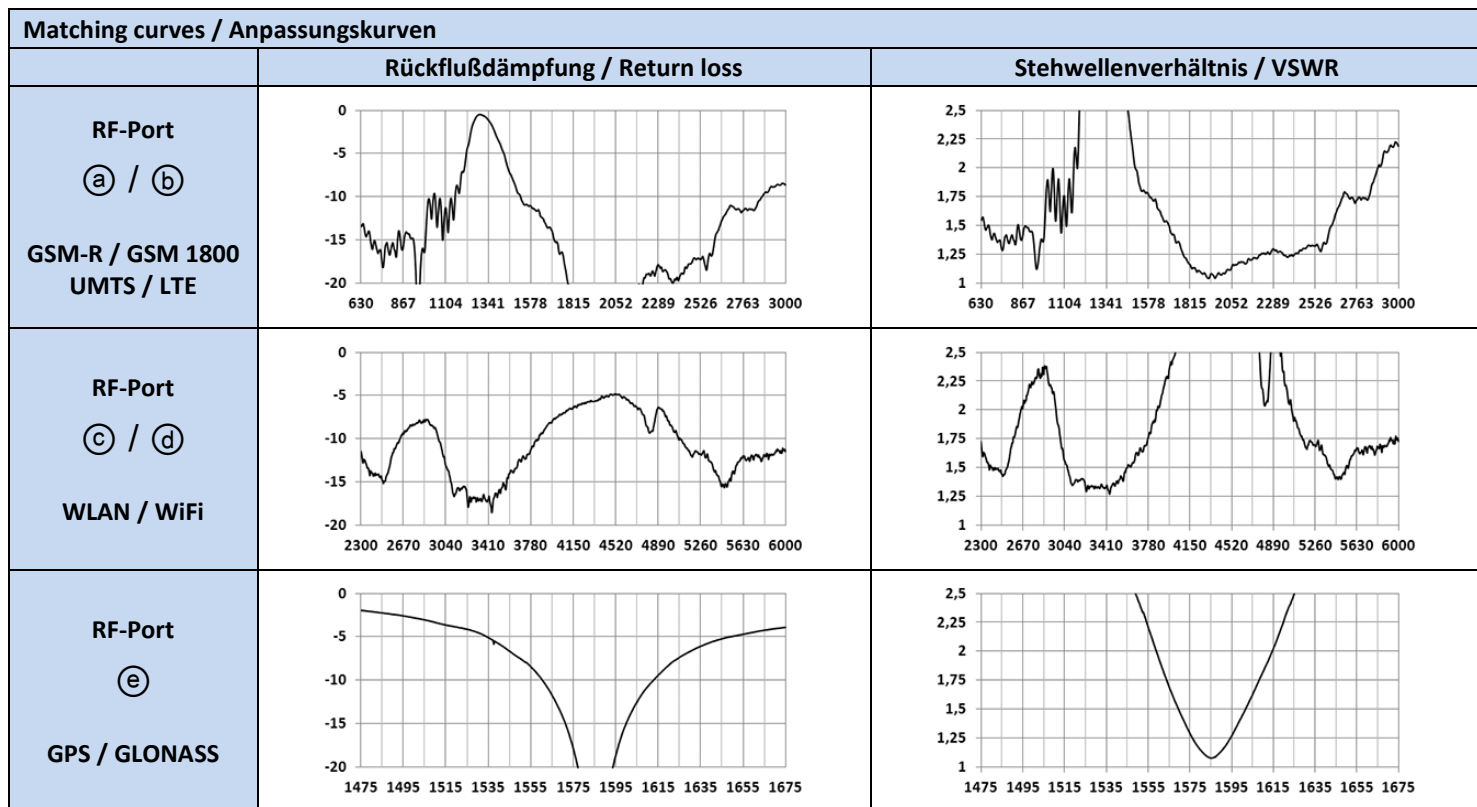
LTE 700 (MIMO) - GSM-R - GSM 1800 - UMTS - LTE 2600 (MIMO) - WLAN 2.4/5.8 (MIMO) - GPS - GLONASS

100-58-10-02.52

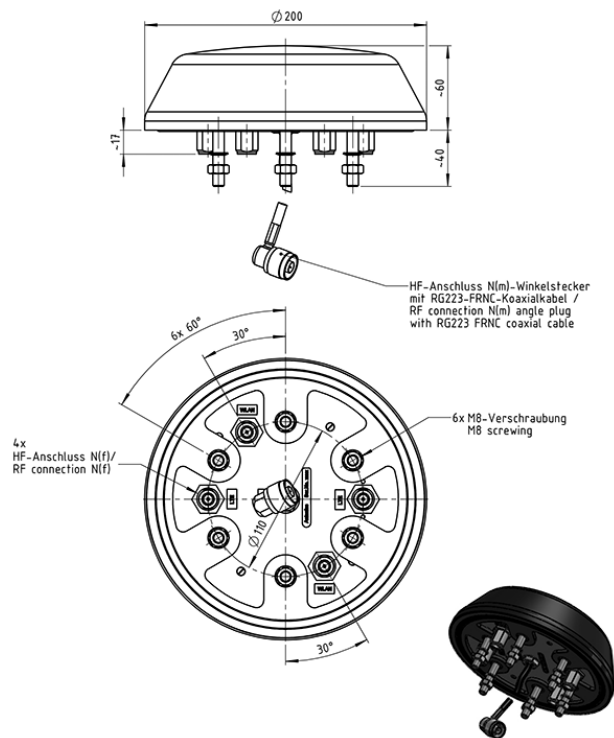
Verwendungszweck	Multiband-Bahnantenne mit Zertifizierung / Zulassung nach Bahnnorm EN 50155 zur Montage auf Schienen- und Kraftfahrzeugen	
Purpose	Multiband-Train Antenna with certification / approval according to train standard EN 50155 for mounting on trains and vehicles	

Technical data / Technische Daten					
RF-Port	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
Spectrum	GSM-R / GSM 1800 UMTS / LTE	GSM-R / GSM 1800 UMTS / LTE	WLAN / WiFi	WLAN / WiFi	GPS / GLONASS
Frequency [MHz]	694 - 960 1710 - 2690	694 - 960 1710 - 2690	2400 - 2500 5180 - 5835	2400 - 2500 5180 - 5835	1575,42 1602
Polarization	vertical / horizontal	vertical / horizontal	vertical	vertical	right-hand circular
Pattern	omnidirectional	omnidirectional	omnidirectional	omnidirectional	omnidirectional
Gain	7,1 dBi (LTE 700) 5,6 dBi (GSM 900) 7,8 dBi (UMTS)	7,1 dBi (LTE 700) 5,6 dBi (GSM 900) 7,8 dBi (UMTS)	10,3 dBi (WLAN 2.4) 9,6 dBi (WLAN 5.8)	10,3 dBi (WLAN 2.4) 9,6 dBi (WLAN 5.8)	5,1 dBi
Average gain*	3,5 dBi	3,5 dBi	4,5 dBi	4,5 dBi	5 dBi
Efficiency	89 %	89 %	97 %	97 %	90 %
VSWR	≤ 1,8 typ.	≤ 1,8 typ.	≤ 1,8 typ.	≤ 1,8 typ.	≤ 1,8 typ.
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
Antenna type	Ring-resonator	Ring-resonator	Ring-resonator	Ring-resonator	High-gain patch- antenna
Power / DC Voltage	50 W	50 W	50 W	50 W	-
RF-Connection	N(f)	N(f)	N(f)	N(f)	0,3 m RG 223 FRNC with N(m) angle
Ground-plane	integrated, but min. Ø 300 mm for LTE 700 & GSM 850	integrated, but min. Ø 300 mm for LTE 700 & GSM 850	integrated	integrated	integrated

Radiation diagrams / Richtcharakteristiken					
RF-Port	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
3D-Pattern					
2D-Pattern (vertical)					
2D-Pattern (horizontal)					



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°	Black or customized (all RAL types)
Weight	Proof of Voltage	Temp. range
ca. 1 500 g	25kV AC / 3kV DC	-60°C to +80°C
Degree of Protection		
Plastic case UV-resistance, waterproof IPX9k		
Certification		
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-200.122	
Drilling template	on demand	
Article number	100-58-10-02.52	
Accessories	GPS-Amplifier inclusive (specification see below) Art.-Nr.: 200-10-15-01	



Amplifier					
Frequency [MHz]	for GPS / GLONASS	Gain	25 dB typ.	RF-Connection	N(f)
Impedance	50 Ω	Noise figure (50 Ω)	2 dB typ.		
Power / DC Voltage	3,3 V to 5 V at inner conductor	Current consumption	8 mA typ. (3,3 V) / 15 mA typ. (5 V)		



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Die vorstehenden Daten wurden mit Standard-Prüfverfahren an definierten Proben erstellt. Die Ergebnisse sind daher als allgemeine Anhaltswerte für Materialeigenschaften anzusehen, nicht als Spezifikationsdaten.

Sollten nicht ausdrücklich etwas Anderweitiges vereinbart wird, kann keinerlei Garantie für die Eignung des Materials für einen bestimmten Anwendungszweck und keine Verpflichtung oder Haftung für darin enthaltene Anwendungshinweise übernommen werden. Es ist Sache des Käufers, ausreichend zu prüfen, ob sich das Material für seine Zwecke eignet, und das volle Risiko für die Verwendung des Materials zu übernehmen.

*Der Average gain ist eine spezifische nicht standardisierte Antonics-Angabe des Antennengewinns. Dieser Wert wird an einer Vielzahl von Messpunkten im Bereich der omnidirektionalen Abstrahlung gemessen und dient als Harmonisierung der Gewinnangaben für die omnidirektionale Strahlungsebene von Antennen. Alle anderen Gewinnangaben beziehen sich auf IEEE Standard Definitions of Terms for Antenna 145-1993.

The above data were generated using standard test procedures on defined specimens. The results are therefore as a general reference for material properties regarded, not as a specification data.

Unless expressly otherwise agreed, no guarantee regarding the suitability of the material for a particular application and no obligation or liability for the information contained therein application can be accepted. It is up to the buyer to adequately consider whether the material is suitable for their purposes, and to assume the entire risk of the use of the material.

*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.