


OmPlecs®-TOP 200 AMR 150-0,7-B

- Bahnantenne / Train Antenna -



LSA - TETRA - WLAN - GPS - GLONASS - Galileo - BeiDou

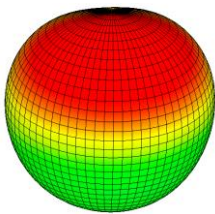
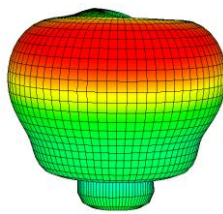
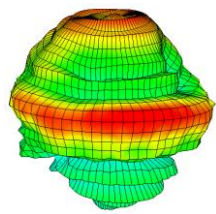
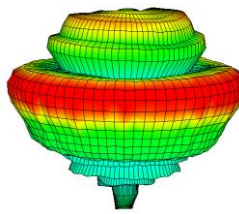
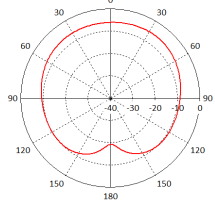
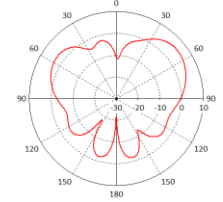
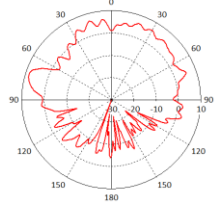
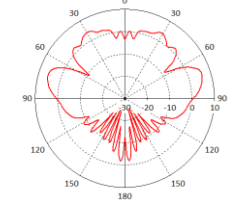
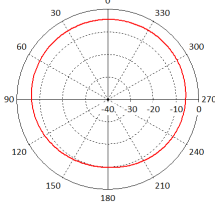
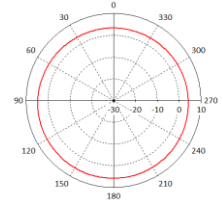
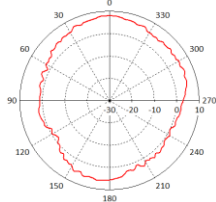
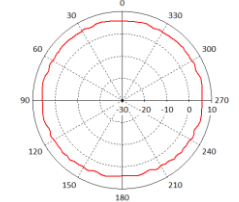
100-58-97-04

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	b	c	d
Spectrum	LSA	TETRA	WLAN / WiFi	GPS / GLONASS Galileo / BeiDou
Frequency [MHz]	149,17	410 - 470	2400 - 2500 5180 - 5925	1560 - 1606
Polarization	vertical	vertical	vertical	right-hand circular
Pattern	omnidirectional	omnidirectional	omnidirectional	omnidirectional
Gain	-4 dBi	4,5 dBi	10,3 dBi (WLAN 2.4) 9,6 dBi (WLAN 5.8)	5,1 dBi
Efficiency	25 %	89 %	94 %	90 %
VSWR	≤ 1,8 typ.	410 - 440 MHz: ≤ 1,8 typ. 440 - 450 MHz: ≤ 1,5 typ. 450 - 470 MHz: ≤ 1,8 typ.	≤ 1,8 typ.	≤ 1,8 typ.
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Antenna type	Ring-resonator	Ring-resonator	Planar antenna structure	High-gain patch-antenna
Power / DC Voltage	50 W	50 W	50 W	-
RF-Connection	N(f)	N(f)	N(f)	0,3 m RG 223 FRNC with N(m) angle
Ground-plane	min. 500 x 500 mm	min. 500 x 500 mm	integrated	integrated

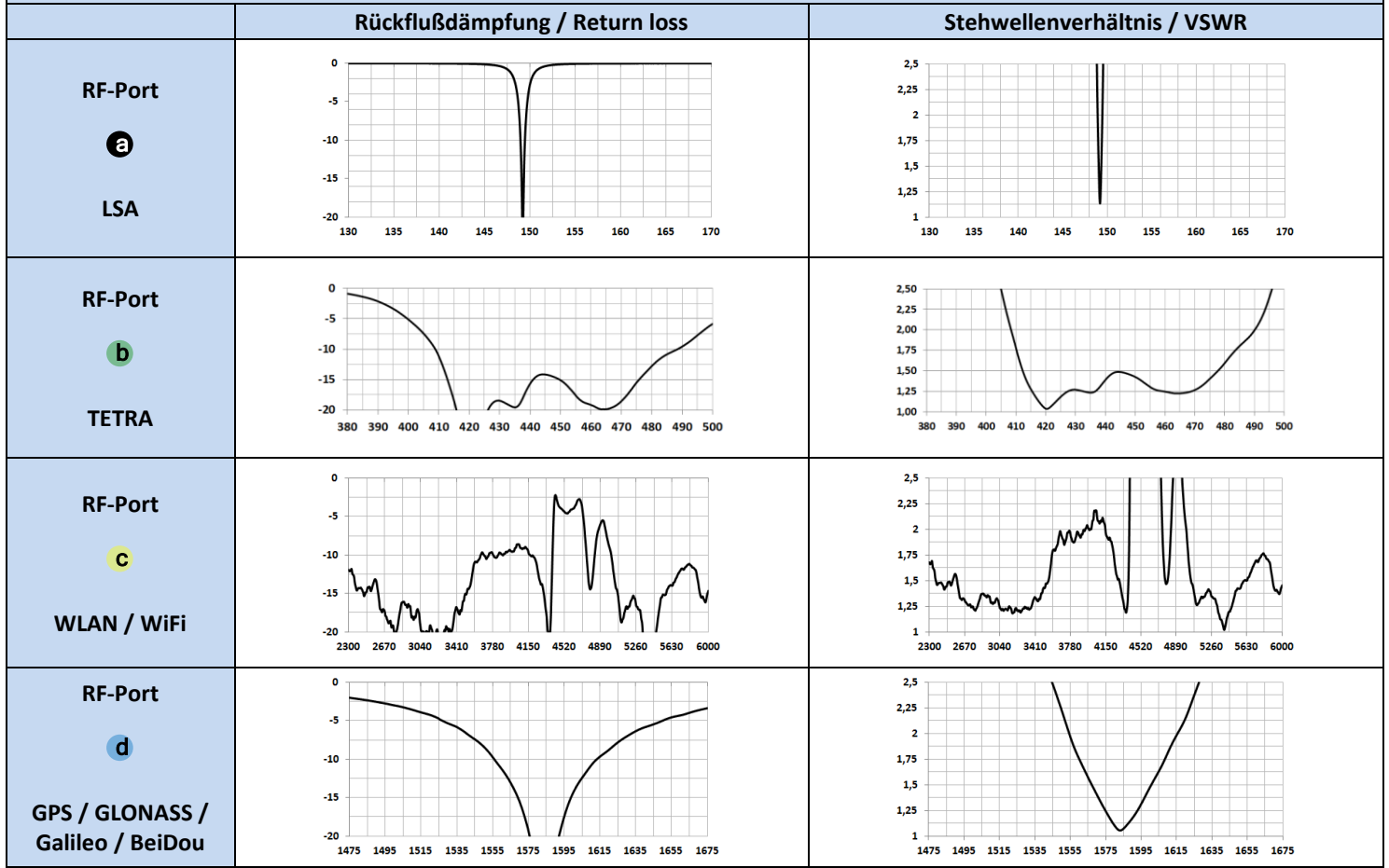
Radiation diagrams / Richtcharakteristiken

RF-Port	a	b	c	d
3D-Pattern				
2D-Pattern (vertical)				
2D-Pattern (horizontal)				



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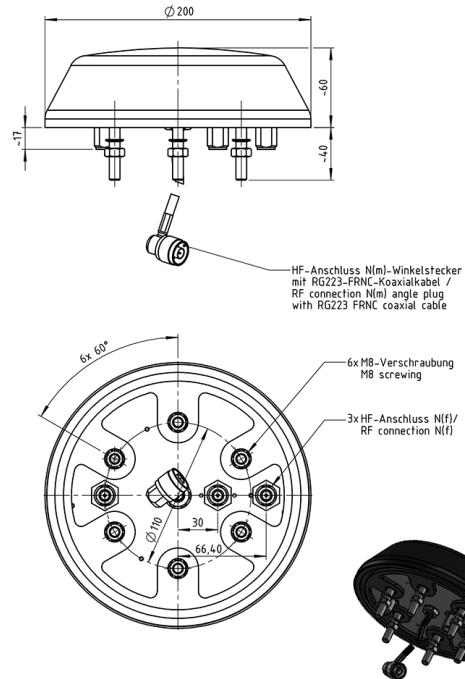
Matching curves / Anpassungskurven



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 customized (all RAL types)
Weight	Proof of Voltage	Temp. range
ca. 1500 g	25kV AC / 3kV DC	-60°C to +85°C
Degree of Protection		
Plastic case UV-resistance, dustproof IP6X & waterproof IPX6k/IPX9k		
Certification		
EN 50155, EN 50122, EN 50124, IEC 60068, IEC 61373, ISO 20653, ISO 9227, EN 45545-2, 2014/30/EU; 2006/28/EC; 2002/95/EC		
Drilling pattern	BB-200.002(b)	
Drilling template	MO-200.002(a)	
Article number	100-58-97-04	
Accessories	GPS-Amplifier inclusive (specification see below) Art.-Nr.: 200-10-15-01	

3D Overview / 3D-Übersicht



Amplifier					
Frequency [MHz]	for GPS / GLONASS / Galileo	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)		

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

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

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.

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